

FIG. 1

005217 507 250

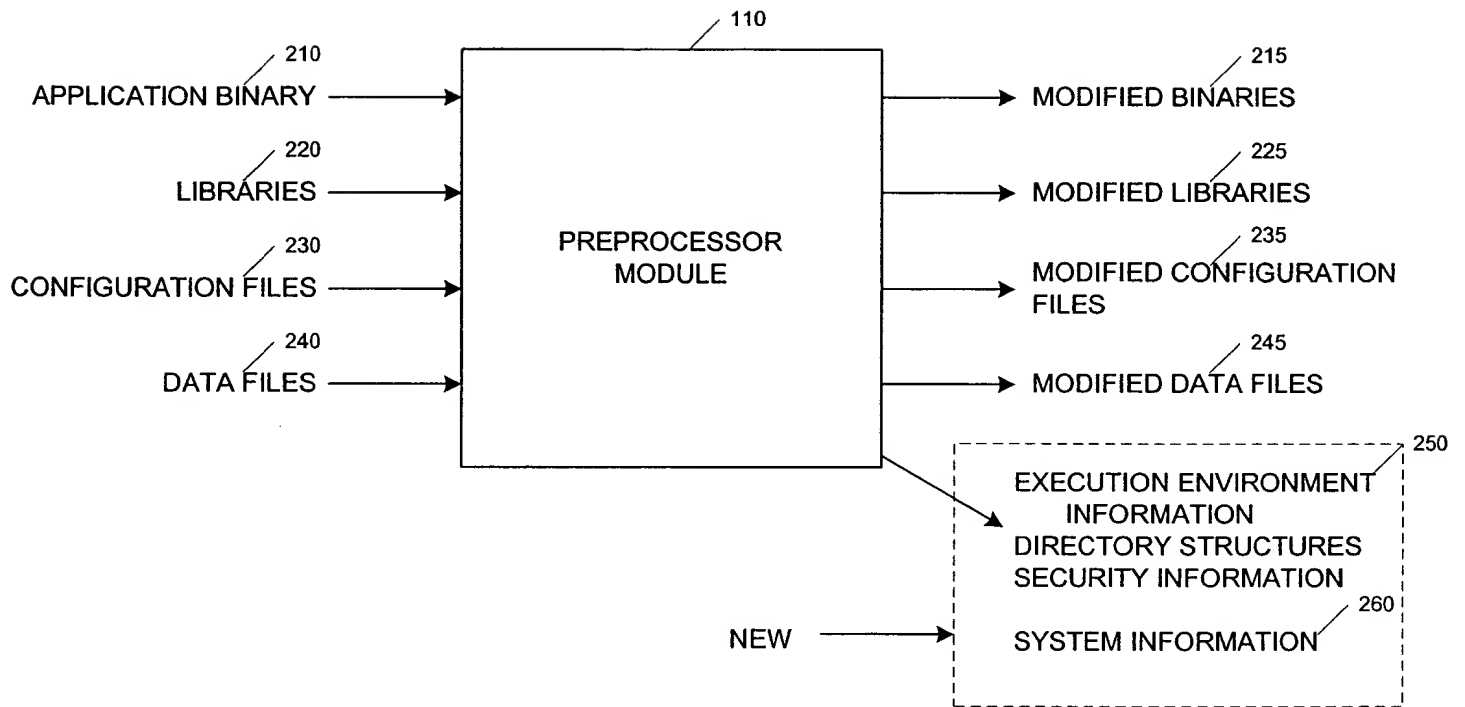


FIG. 2

NORMAL EXECUTION

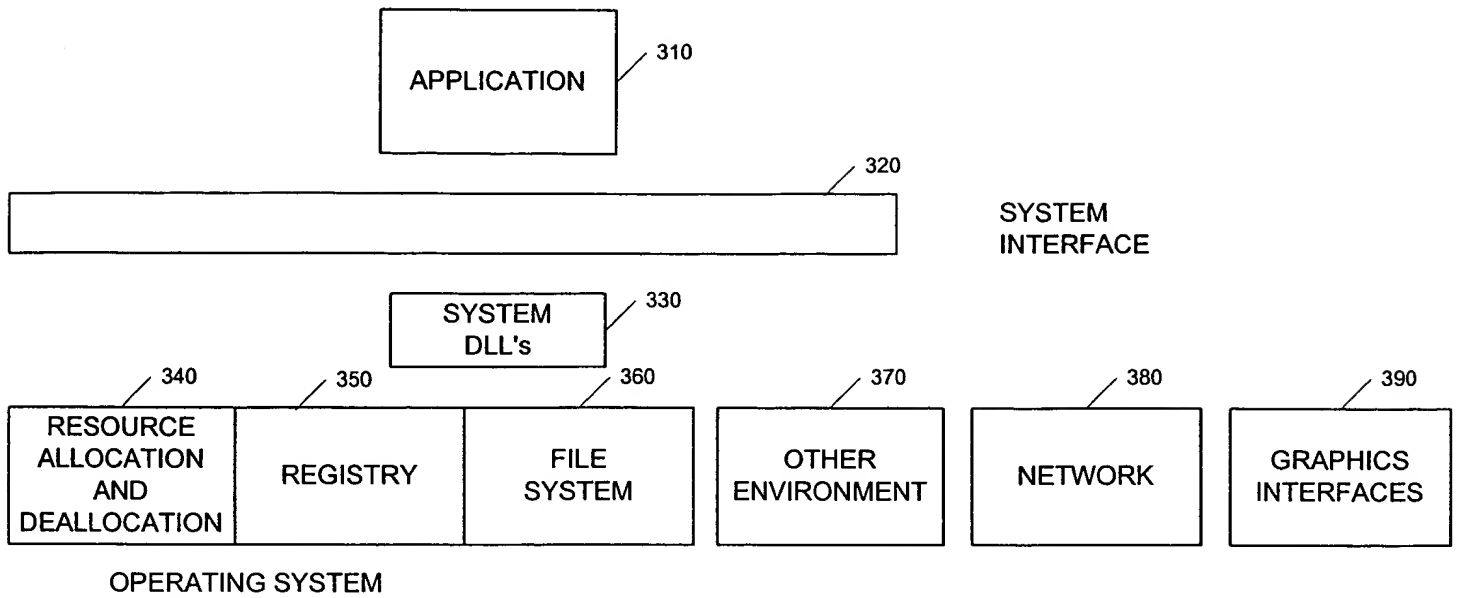


FIG. 3

SECURE EXECUTION

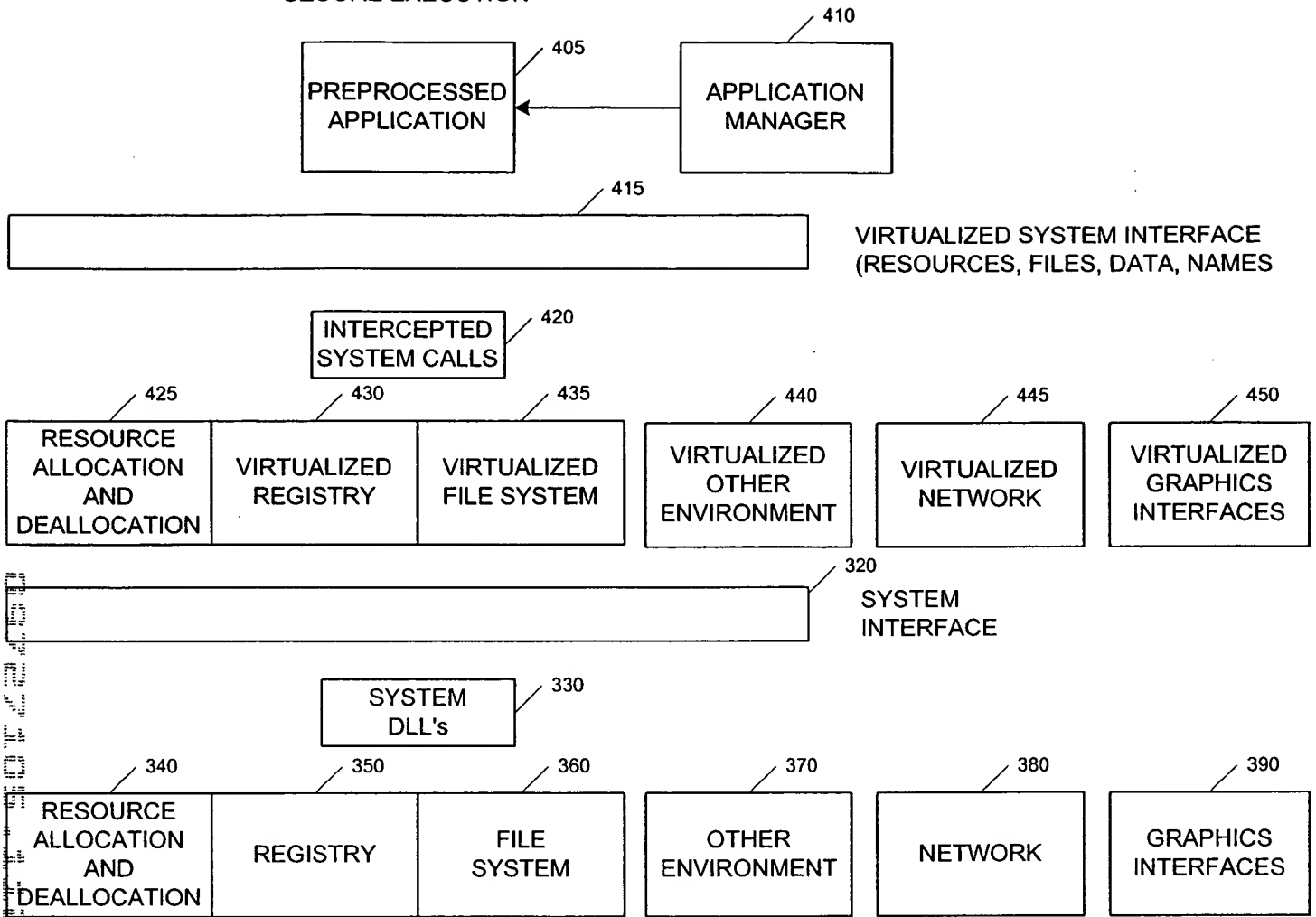


FIG. 4

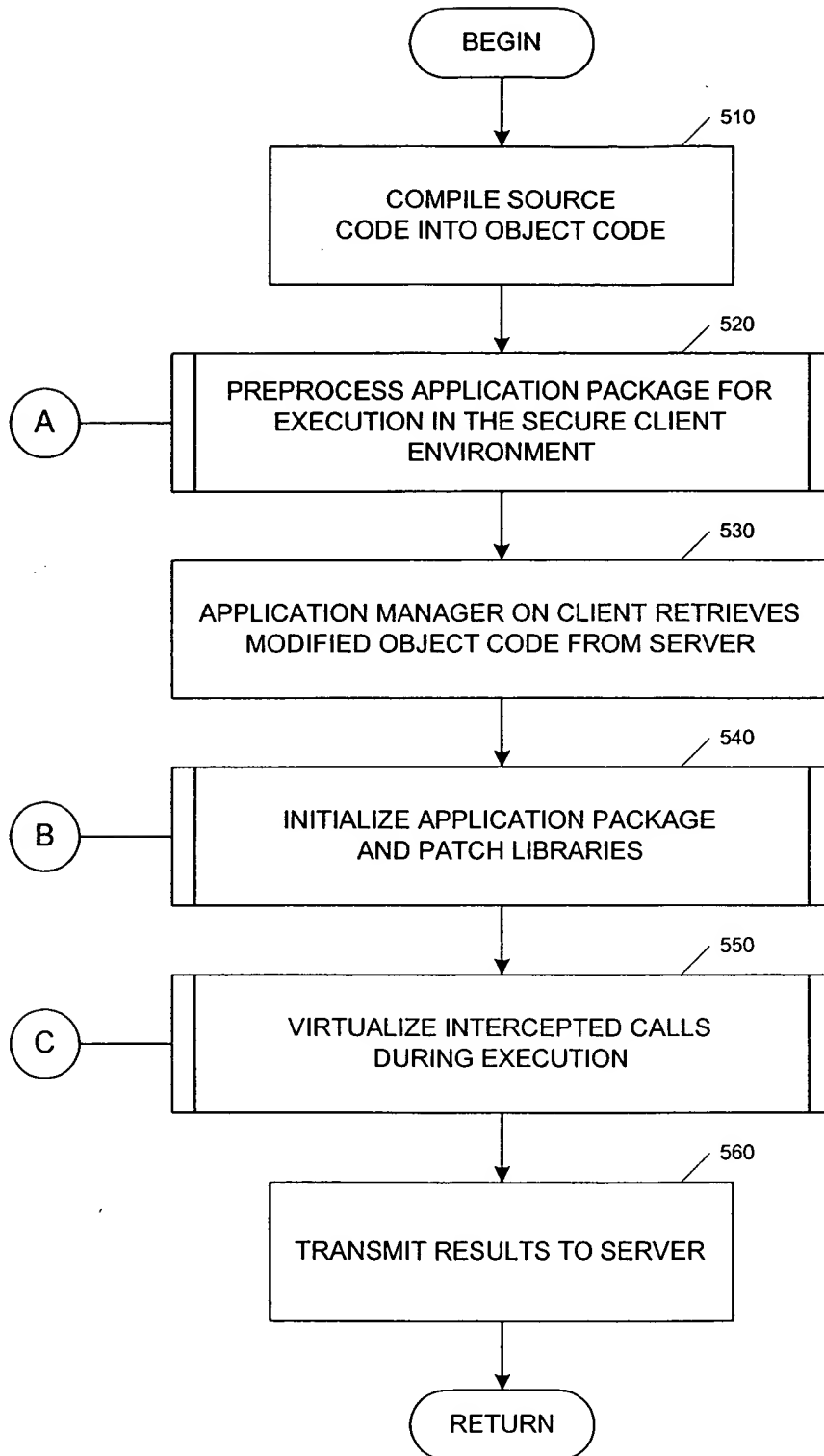


FIG. 5

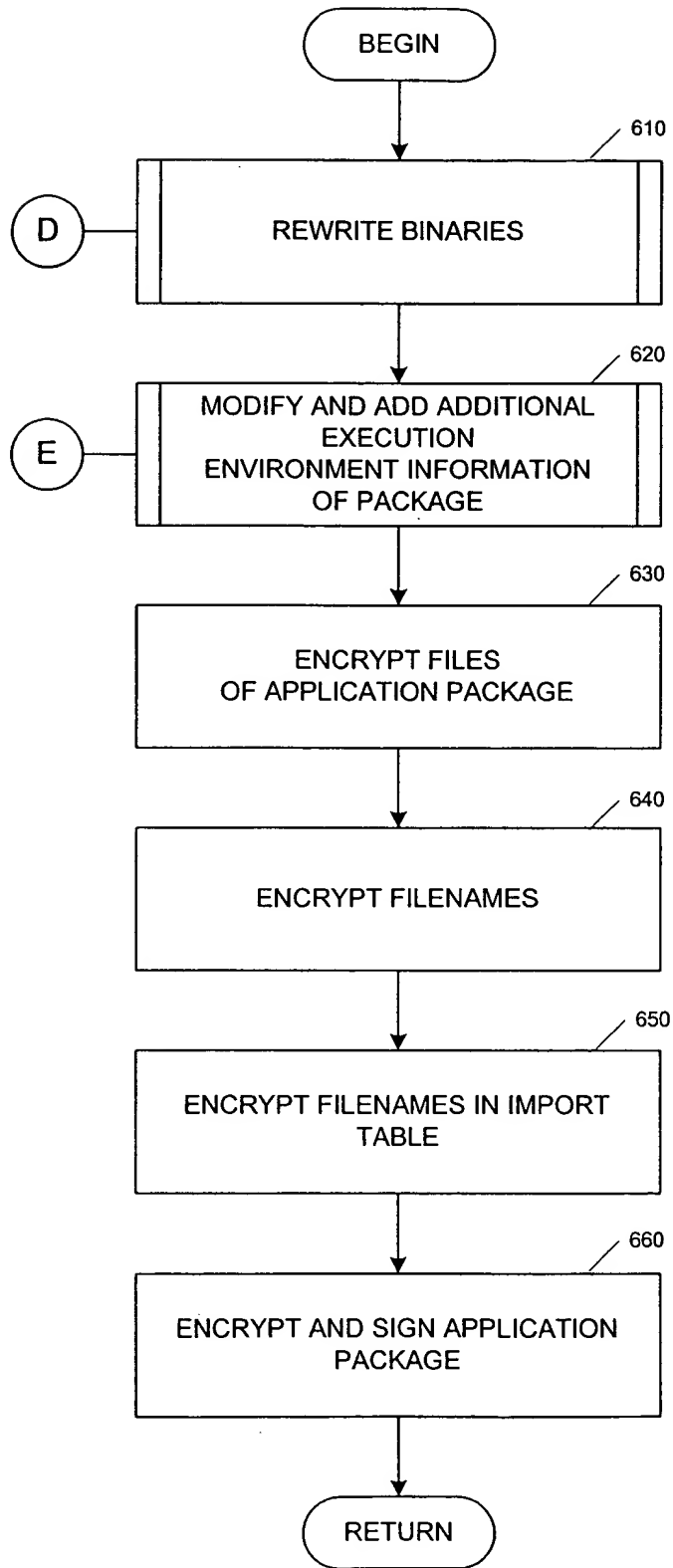


FIG. 6

D 610

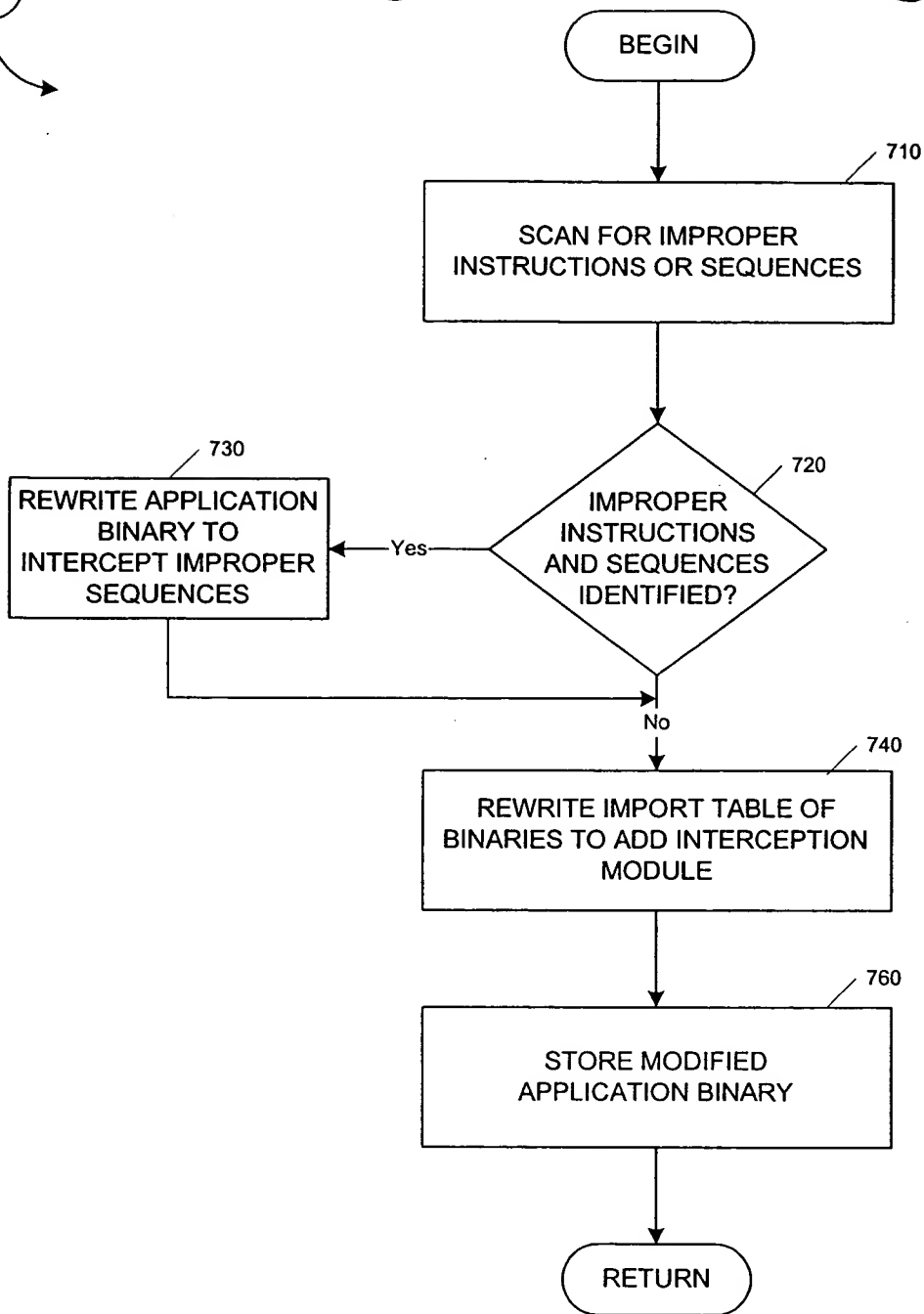


FIG. 7

E 620

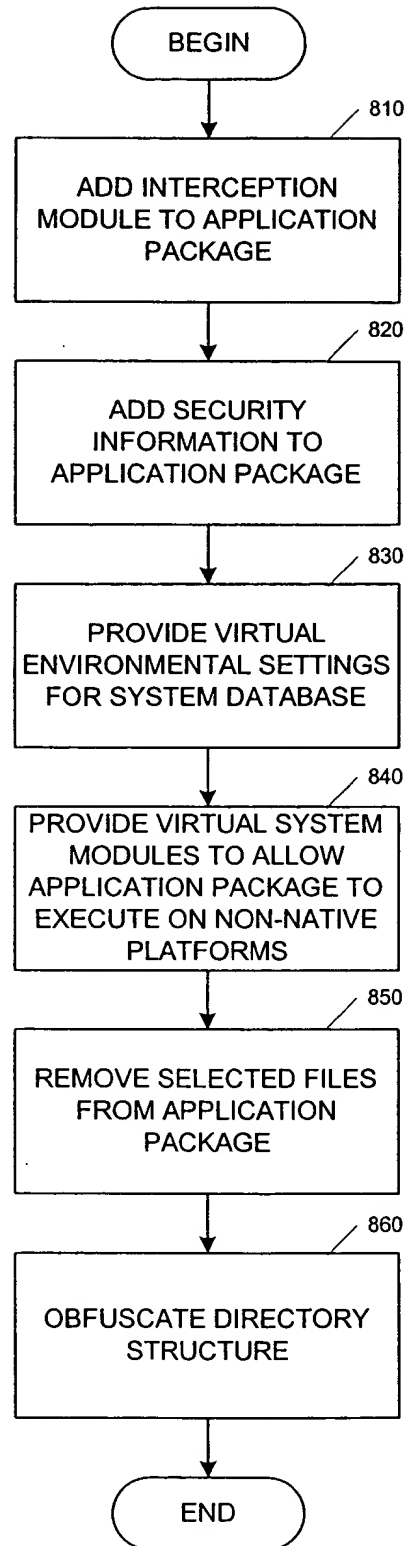


FIG. 8



**Public Health and Safety**

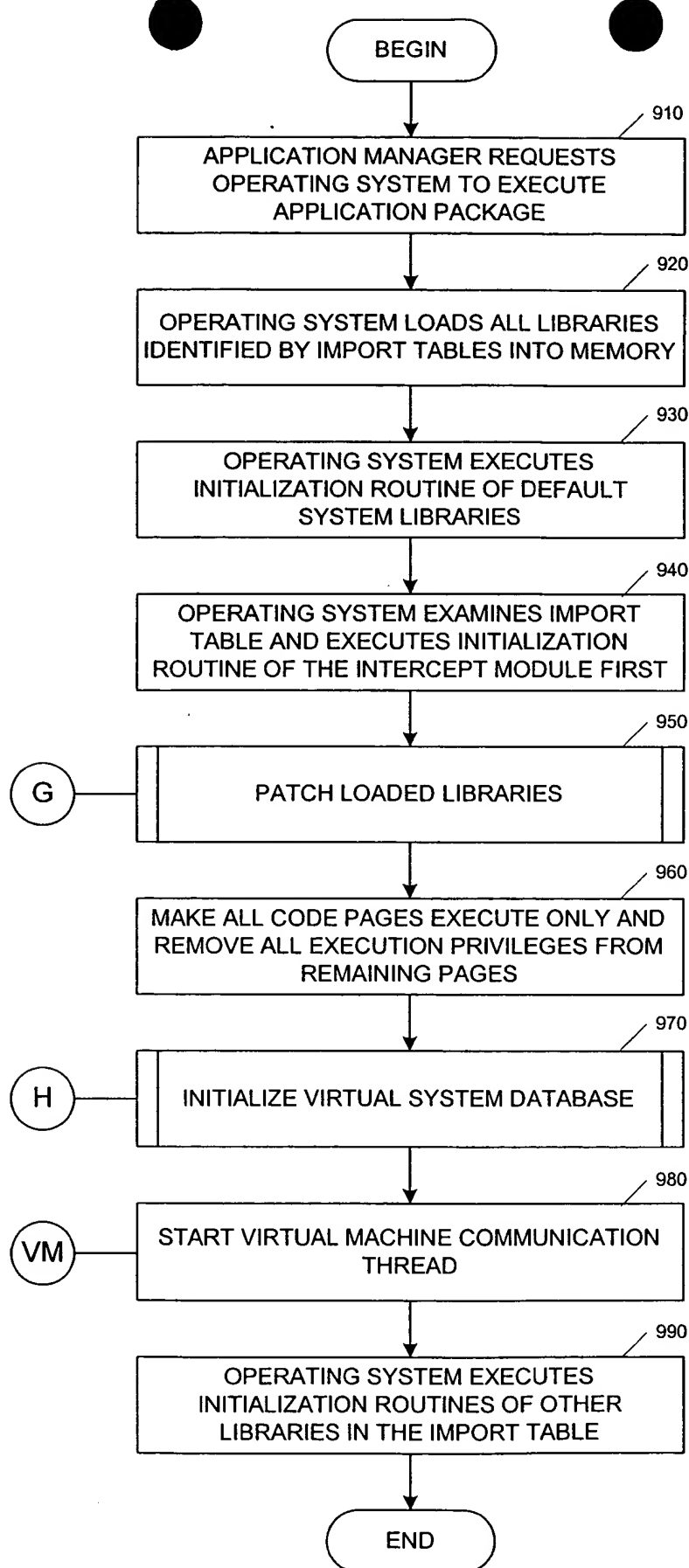


FIG. 9

G 950

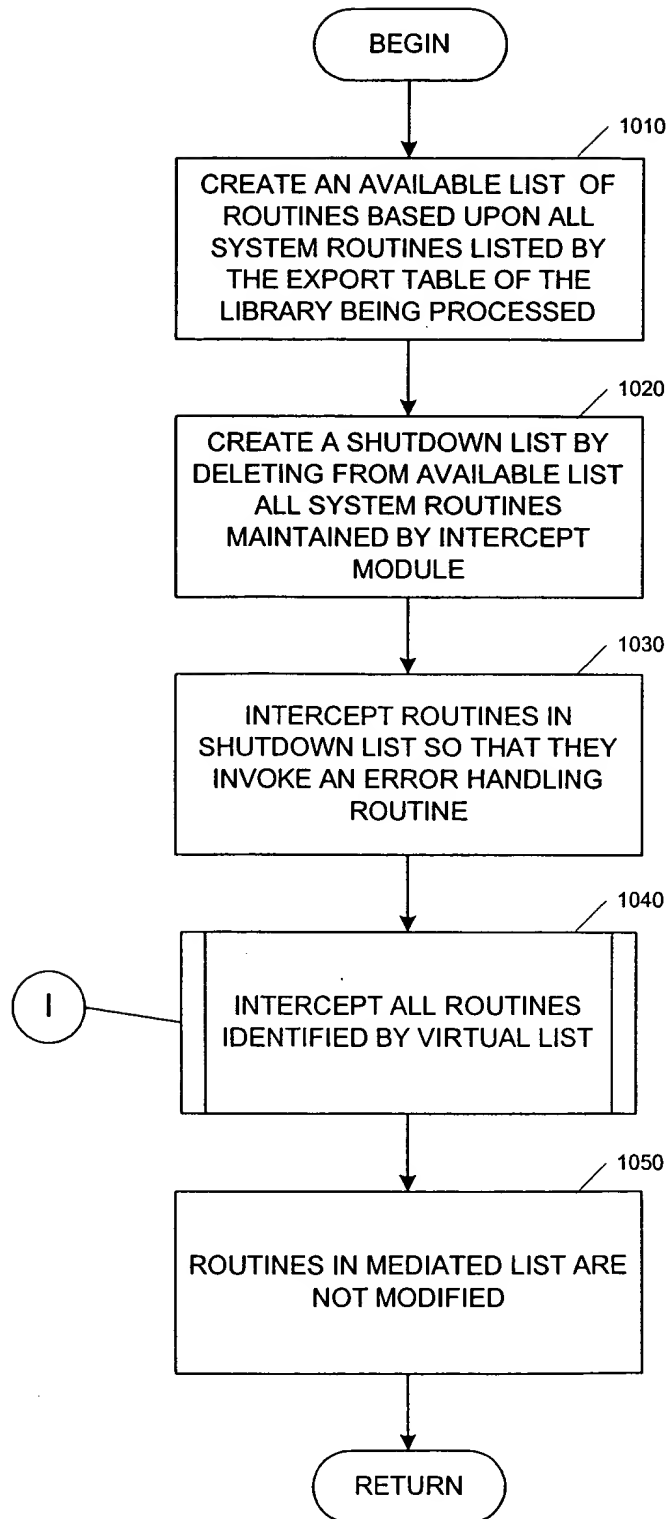


FIG. 10

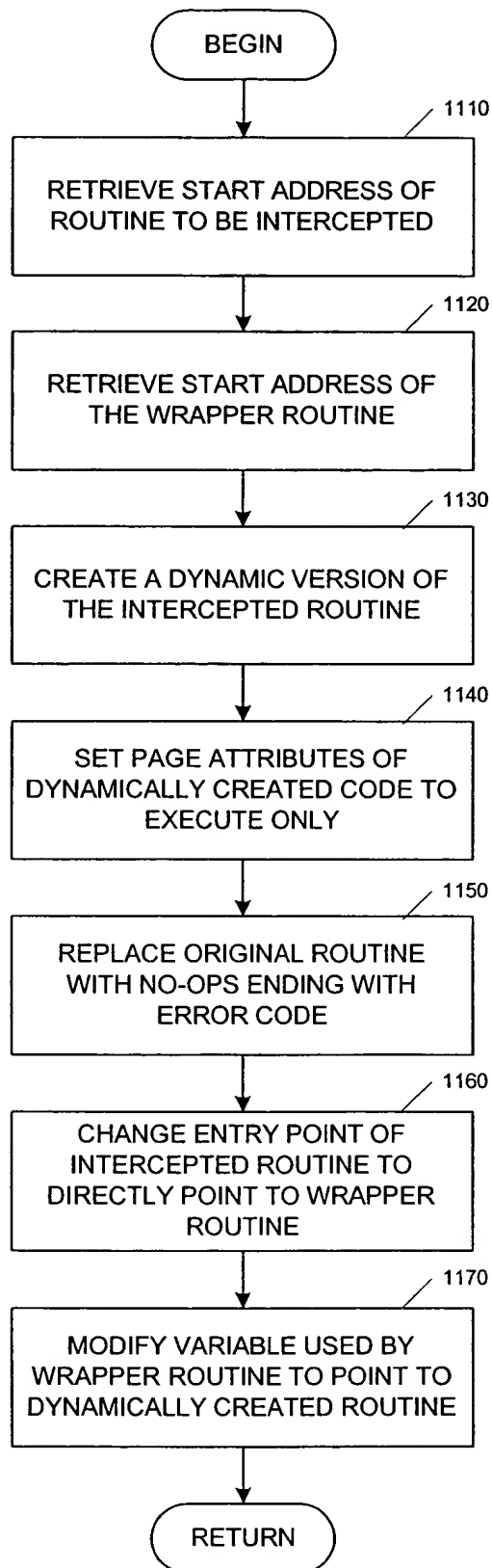


FIG. 11

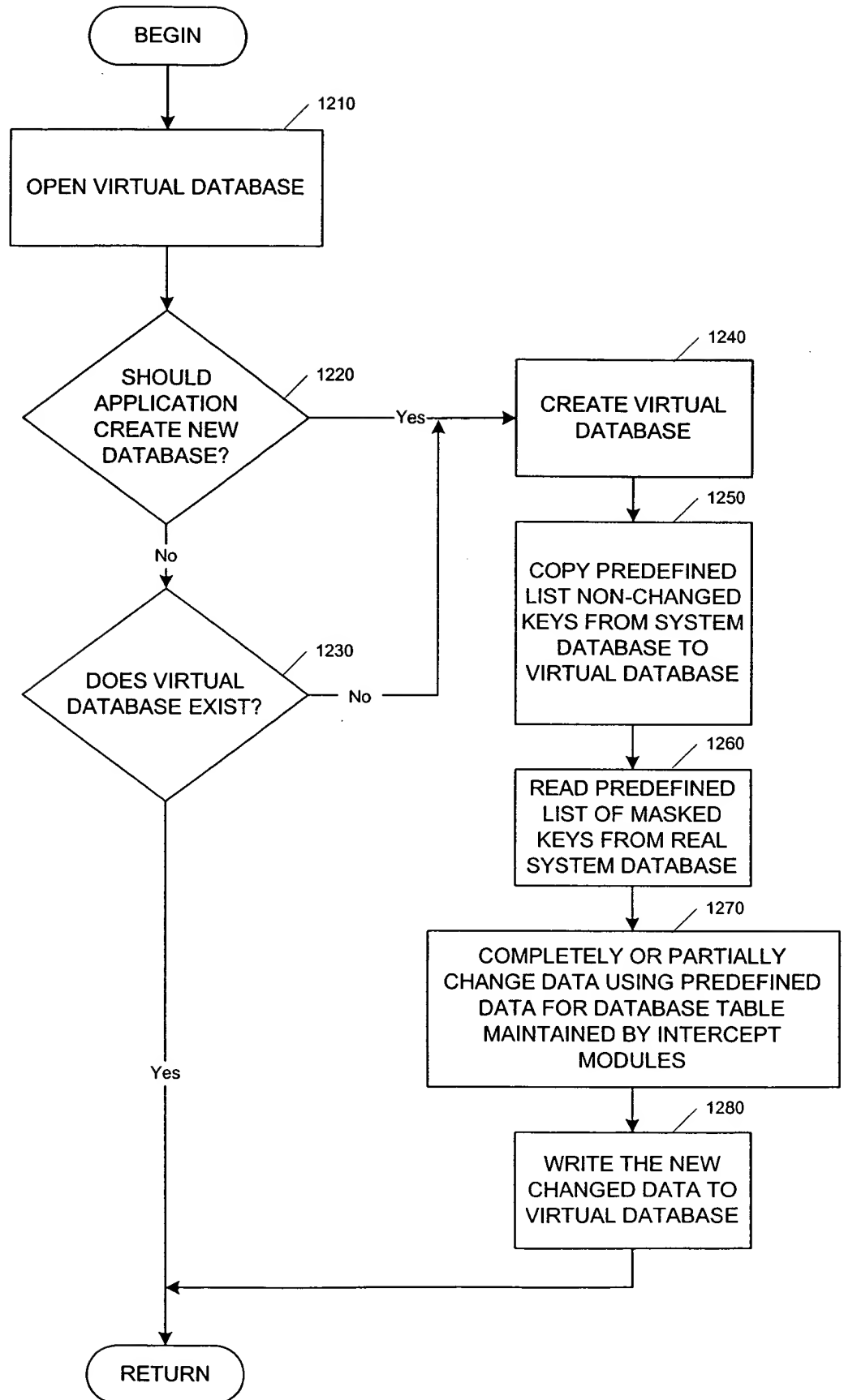


FIG. 12

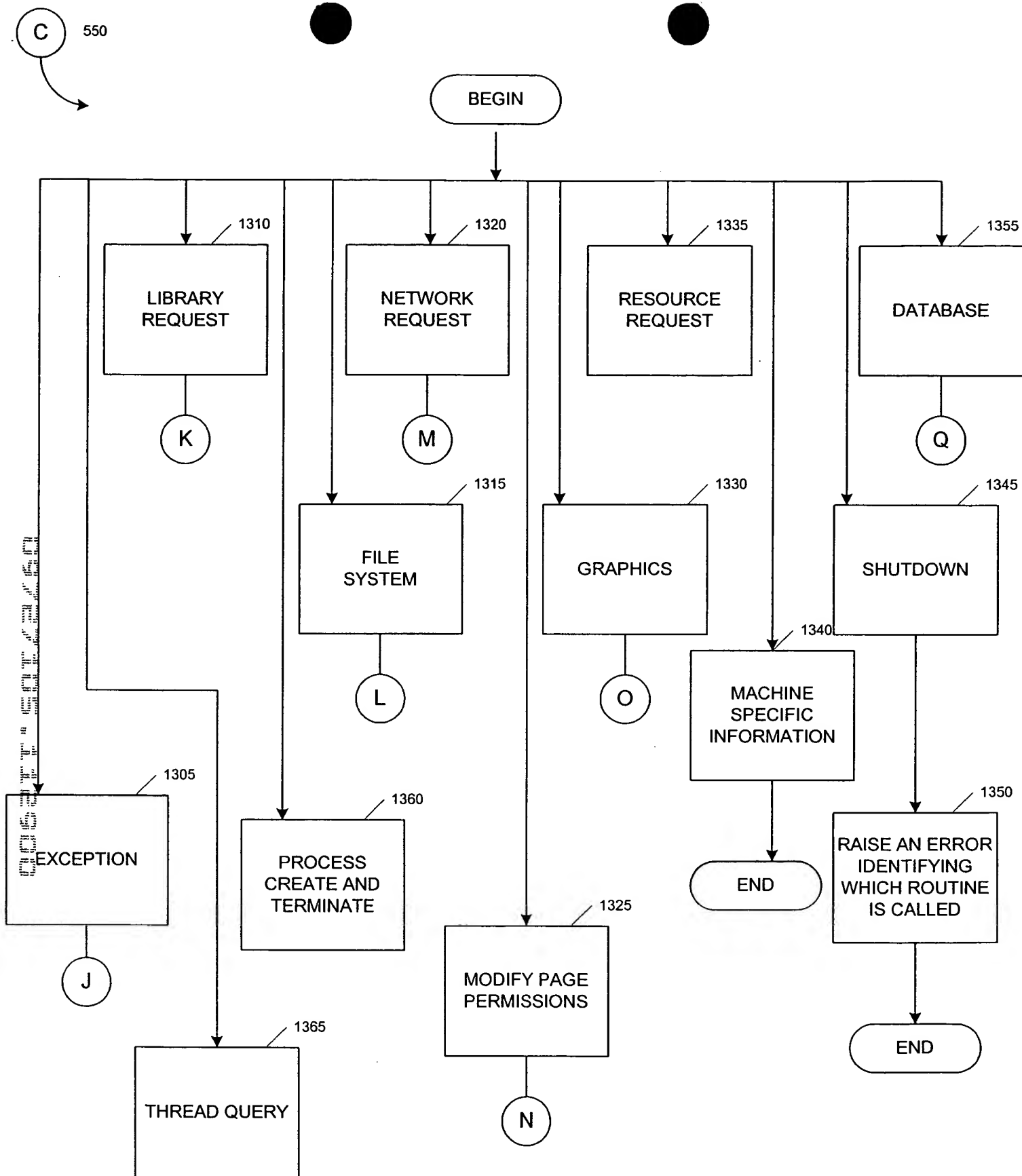


FIG. 13

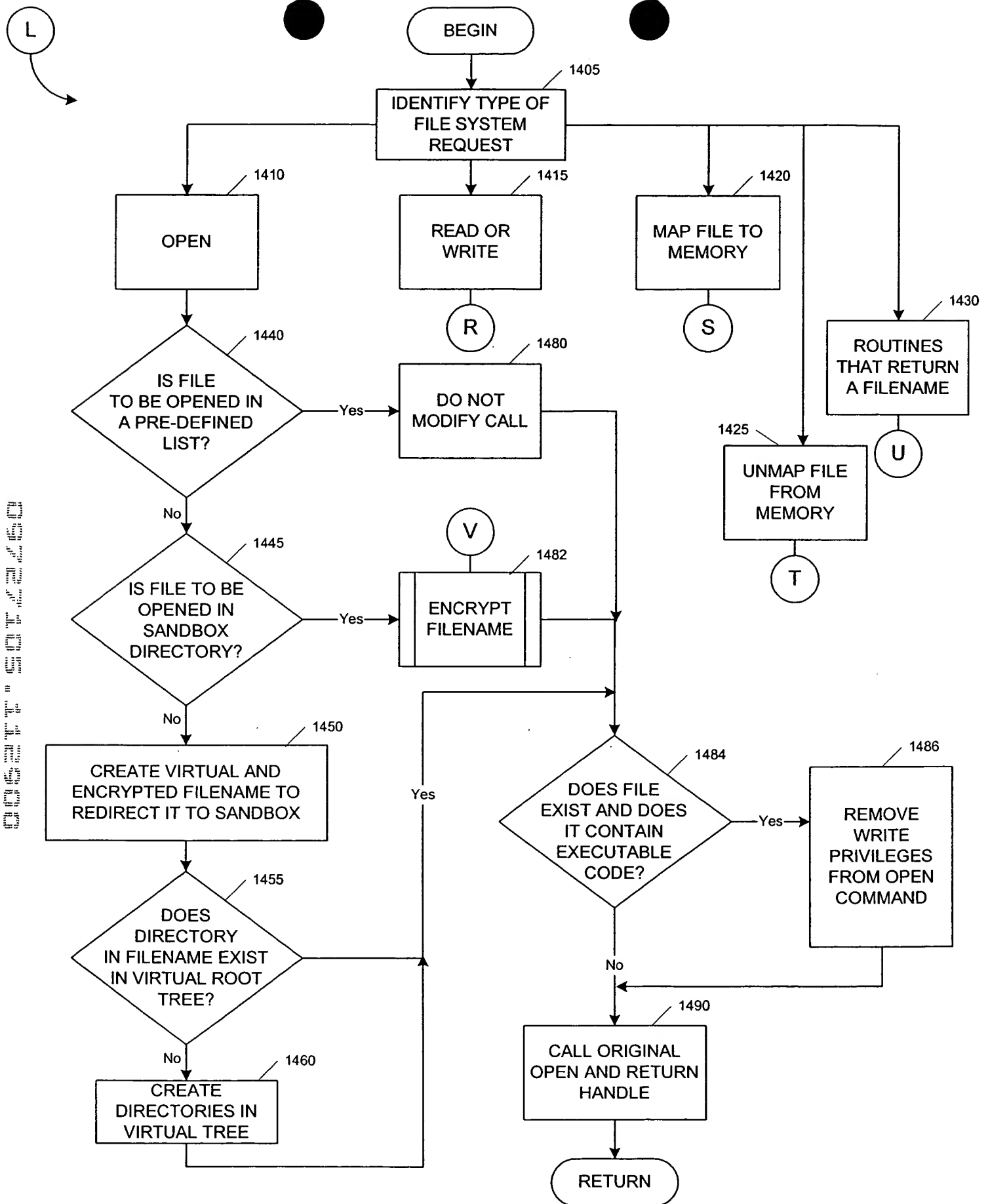


FIG. 14

J

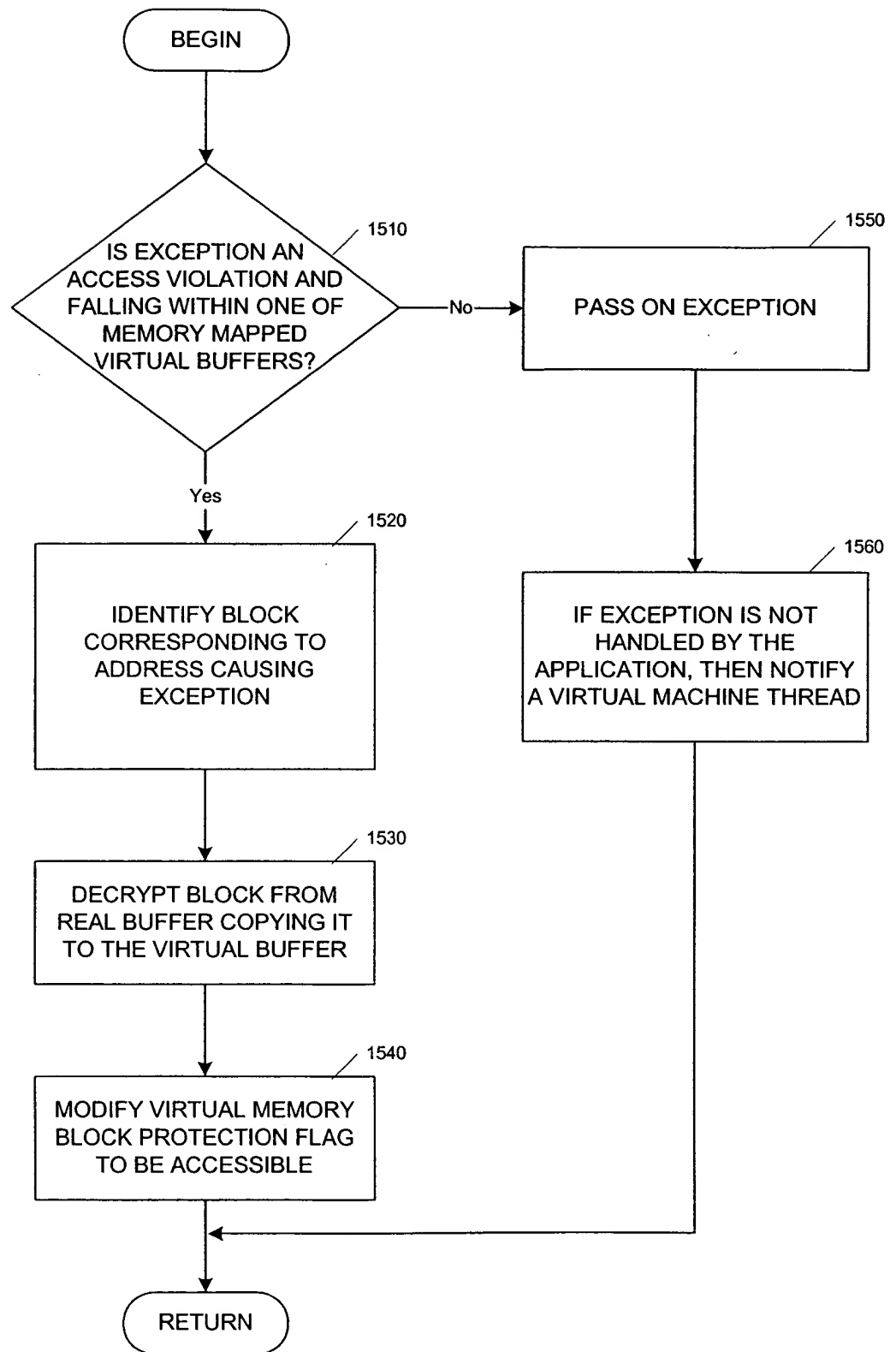


FIG. 15

K

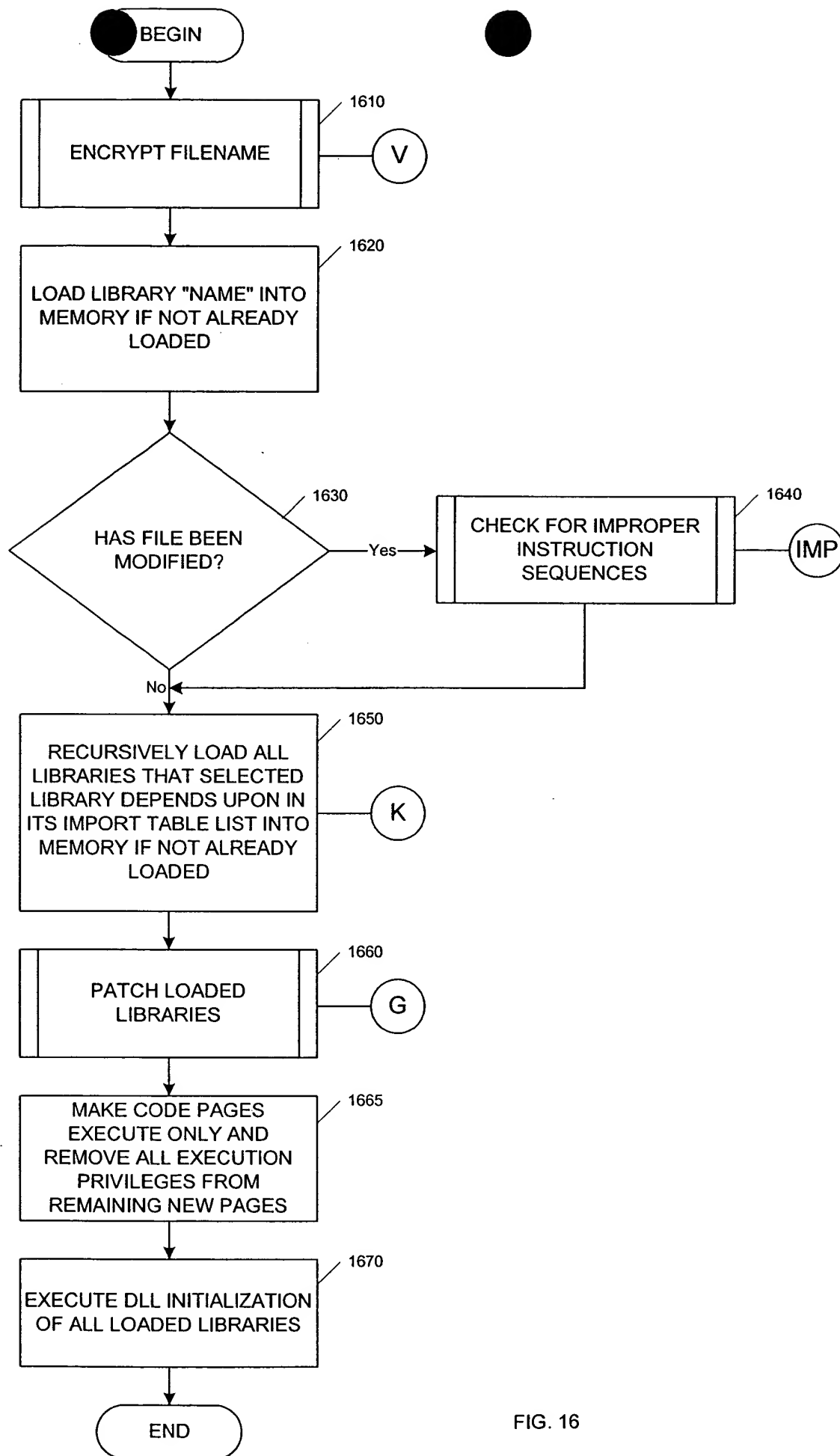


FIG. 16



IMP

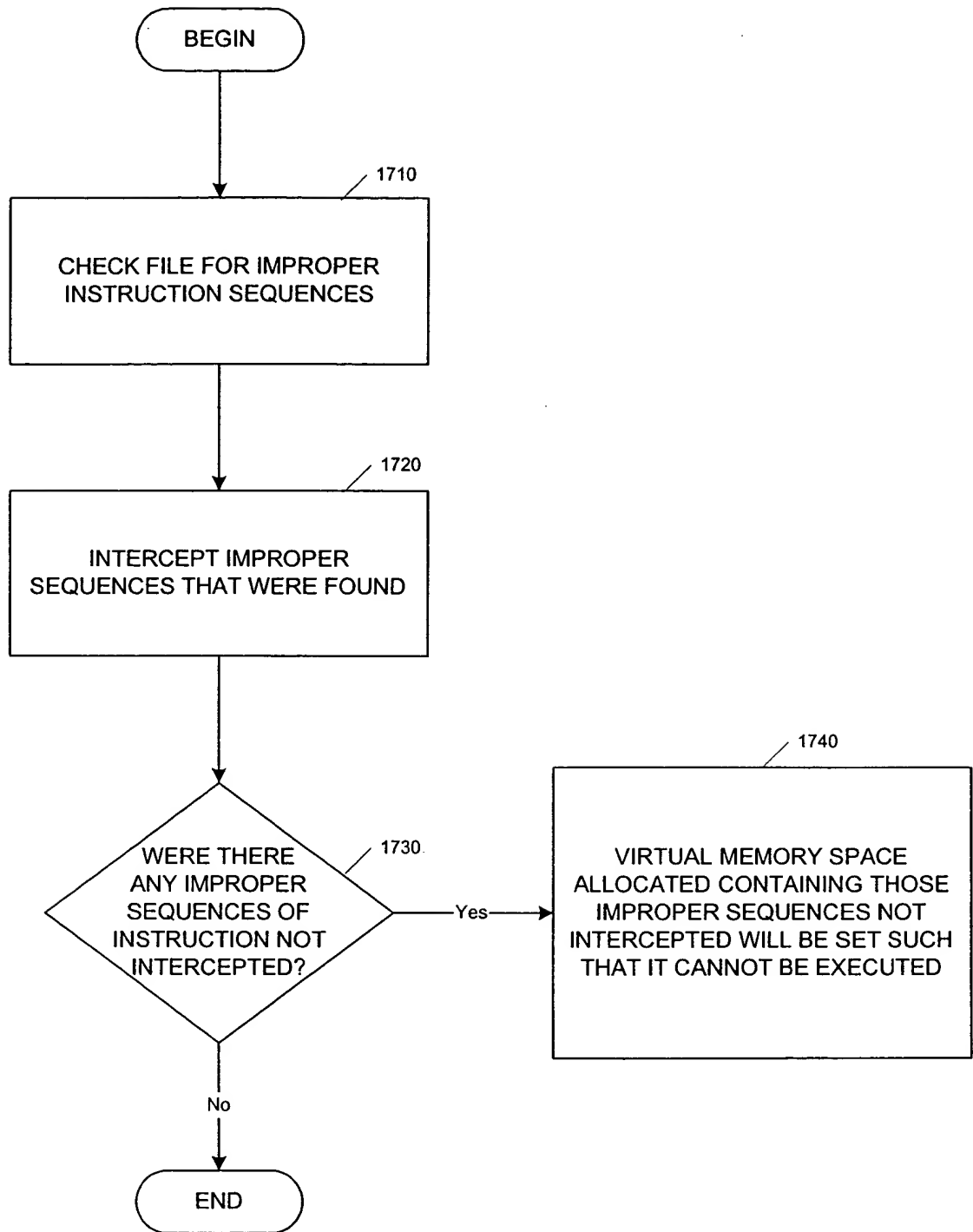


FIG. 17

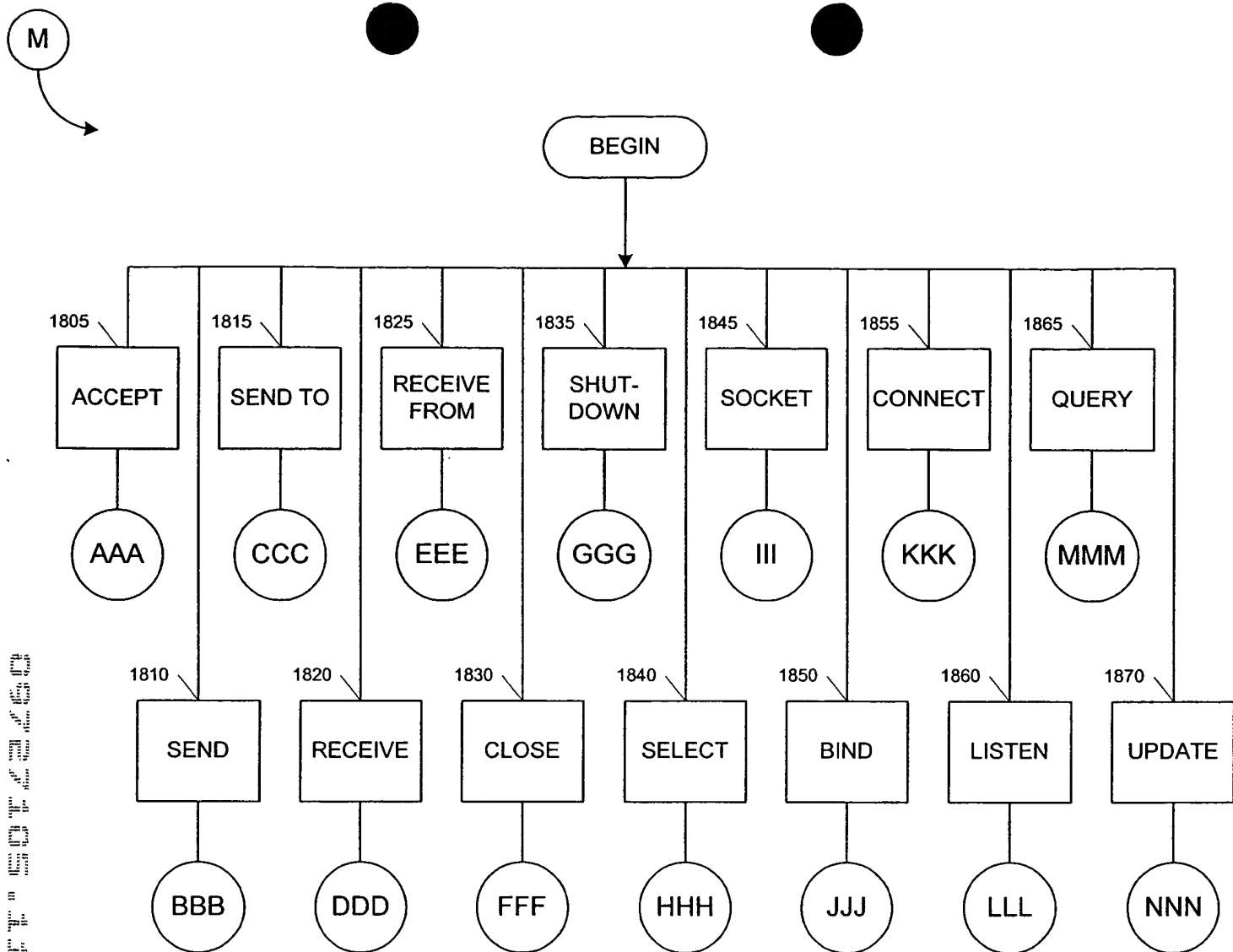


FIG. 18

AAA

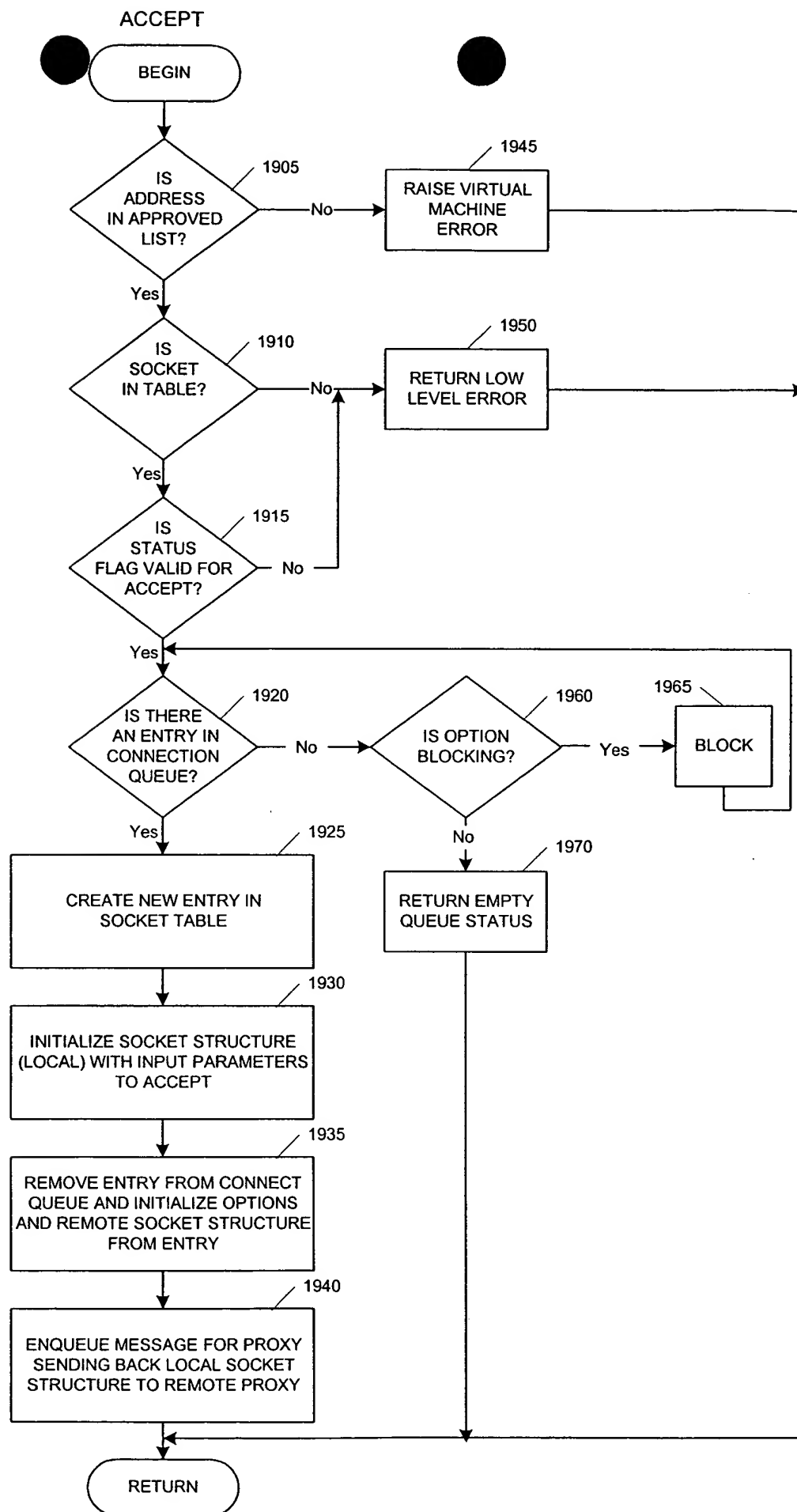


FIG. 19

BBB

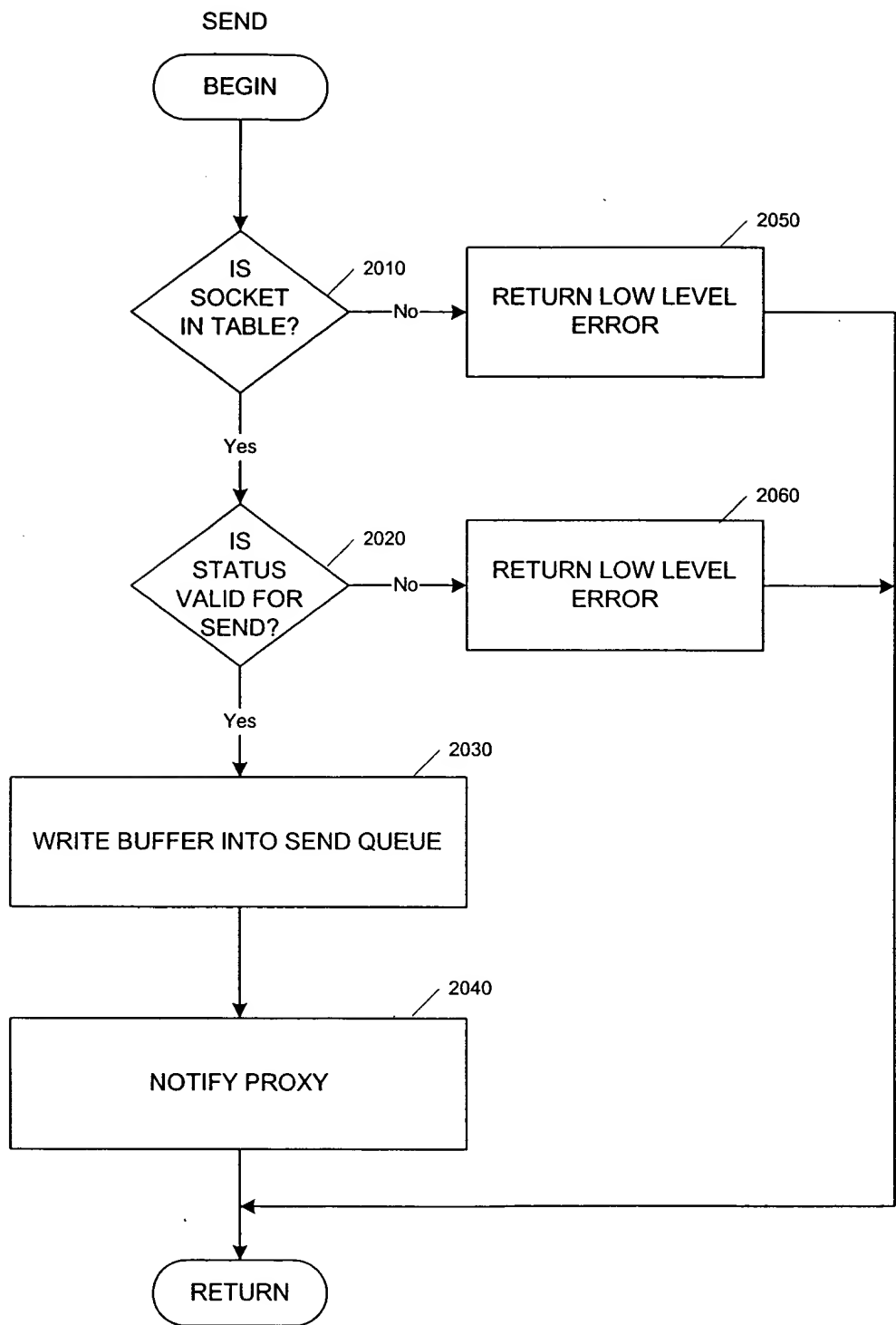


FIG. 20

CCC

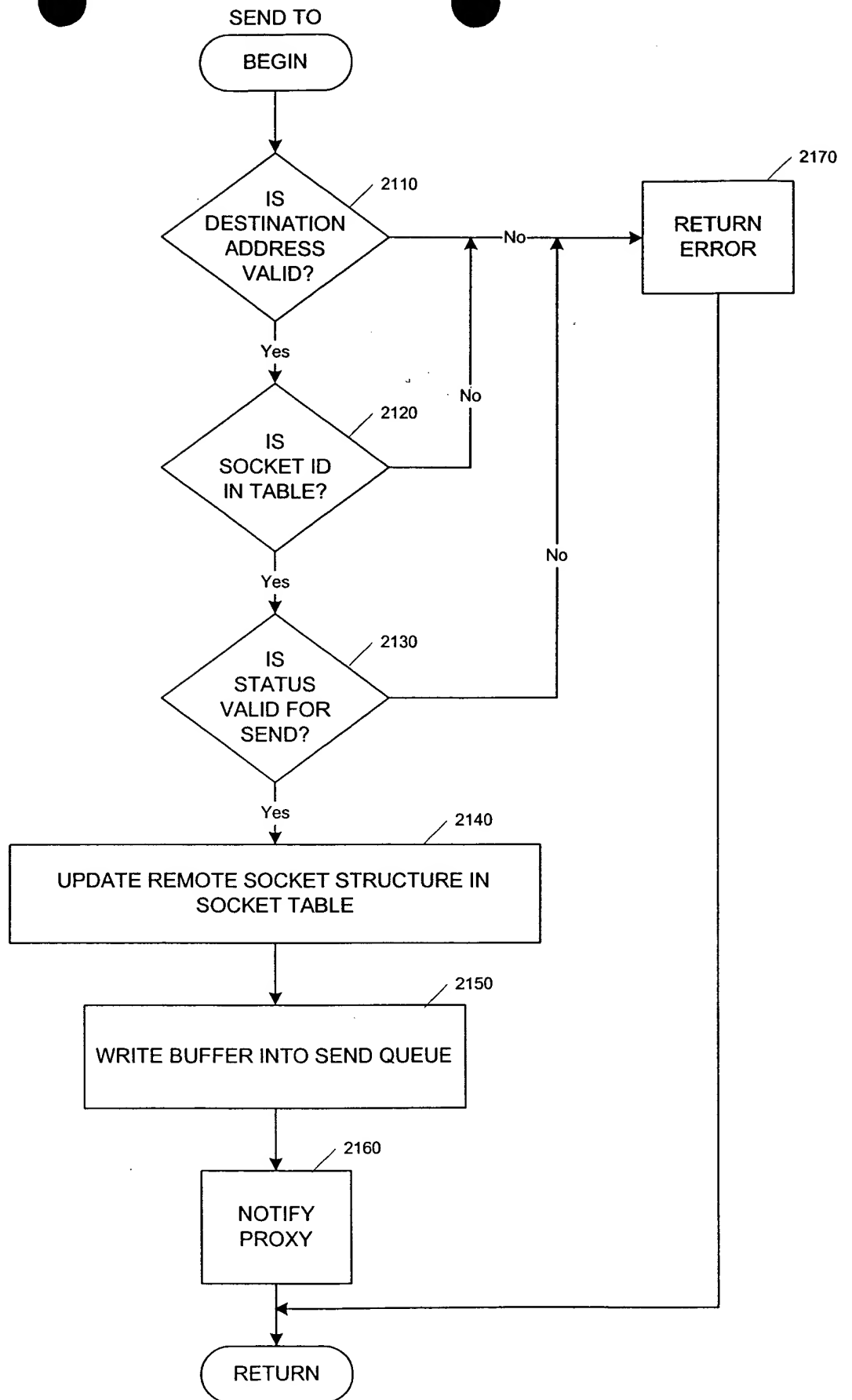


FIG. 21

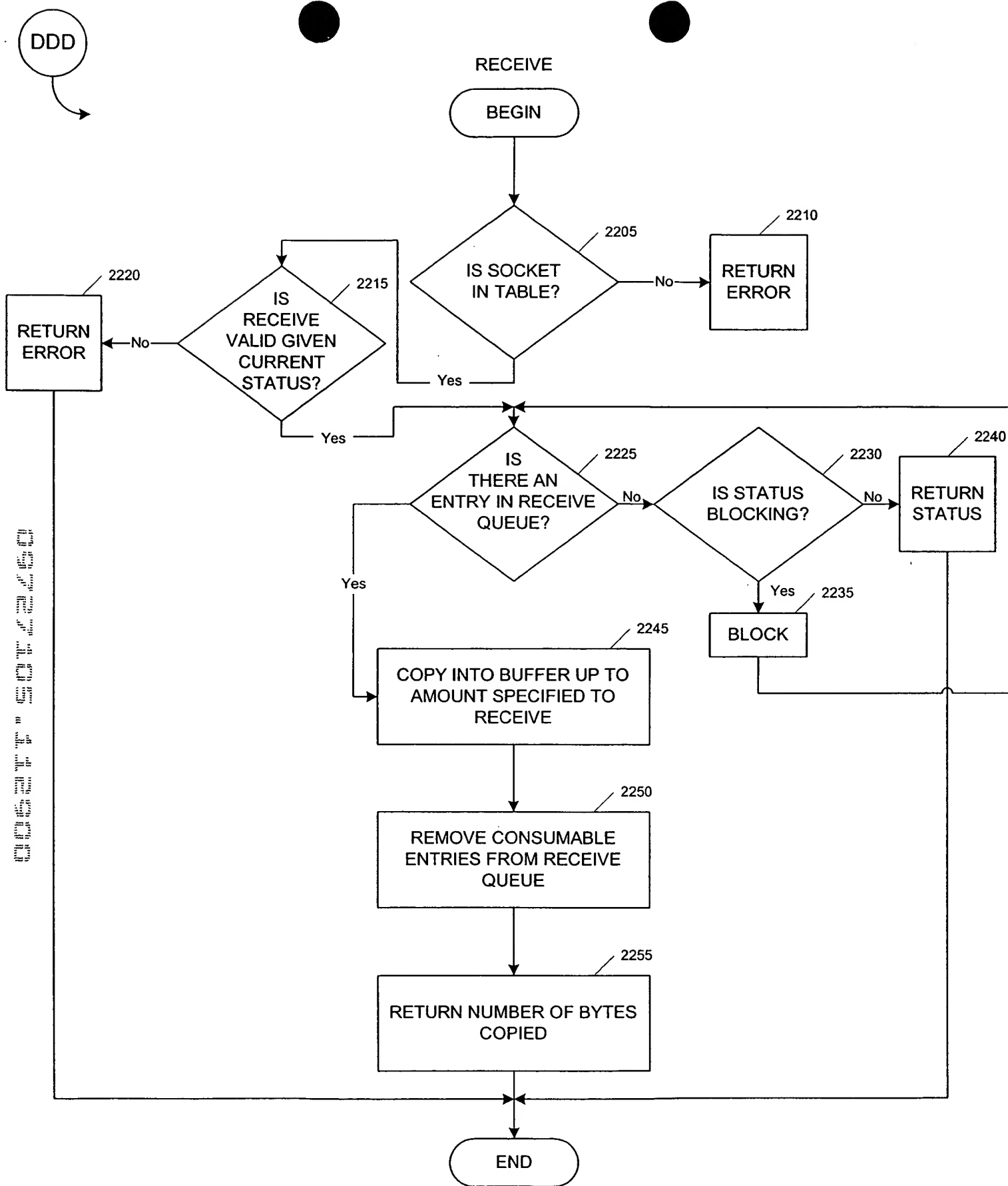


FIG. 22

EEE

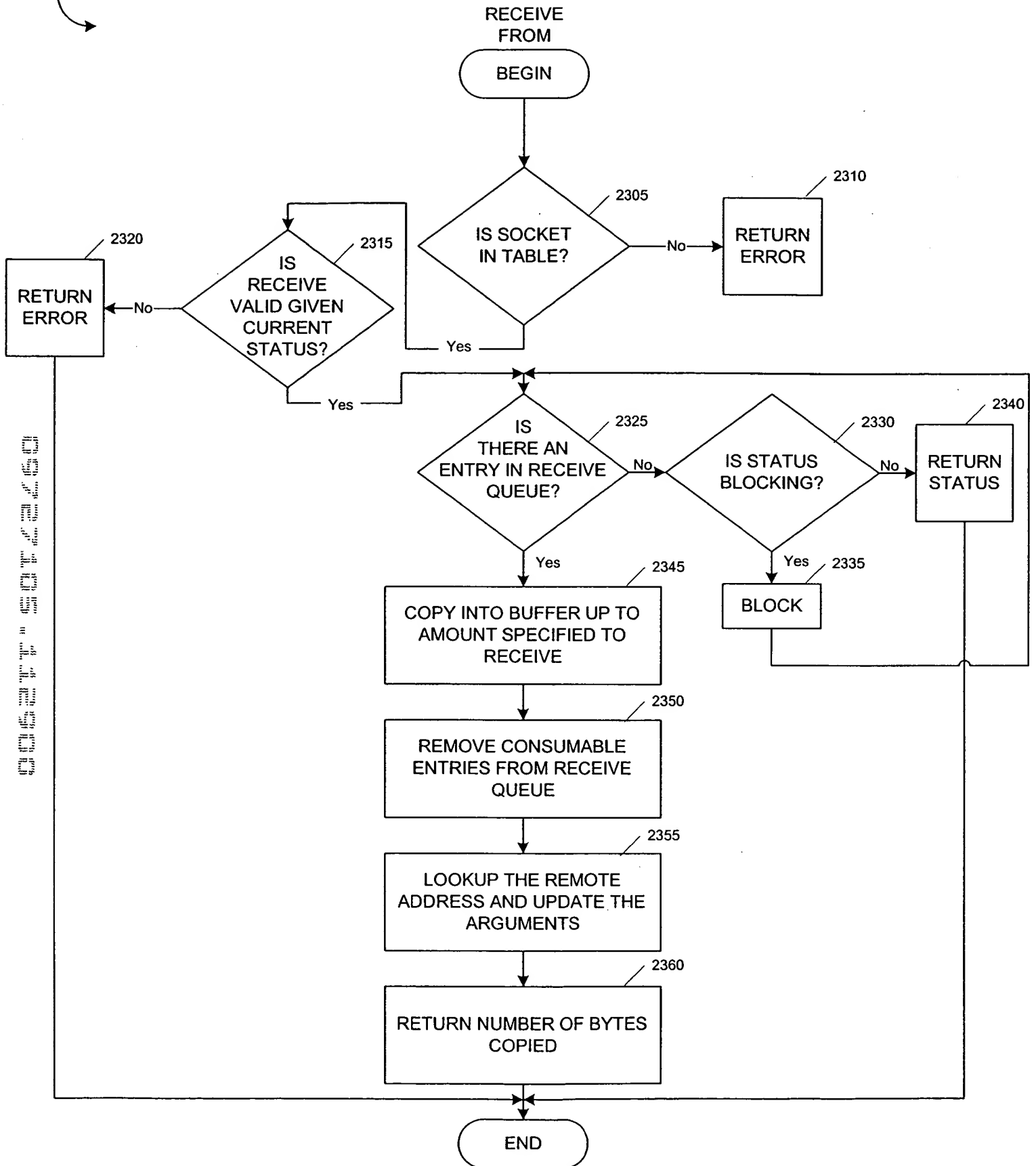


FIG. 23

FFF

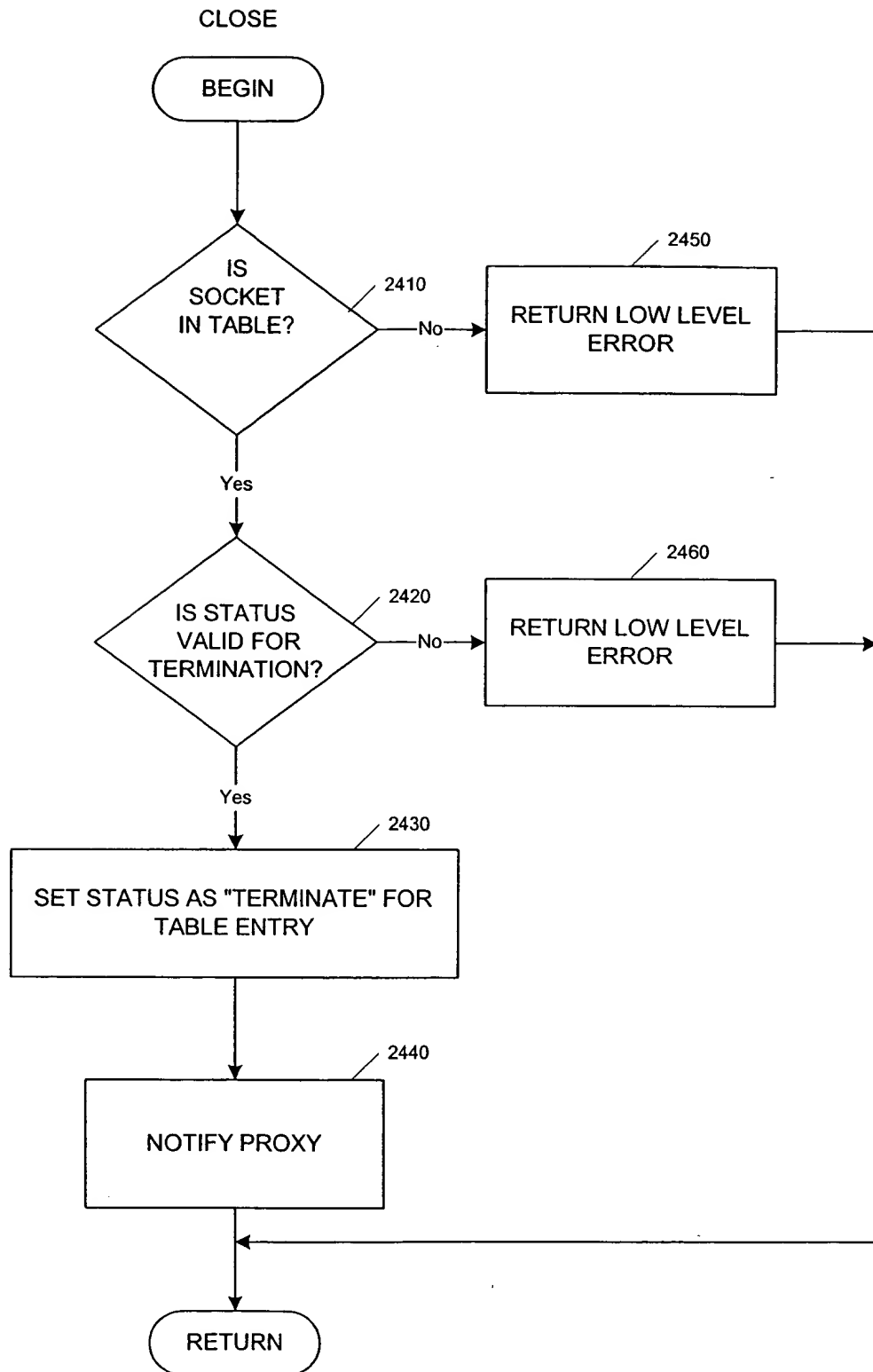


FIG. 24



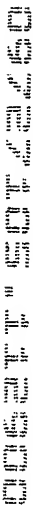


FIG. 25

**Abstract**

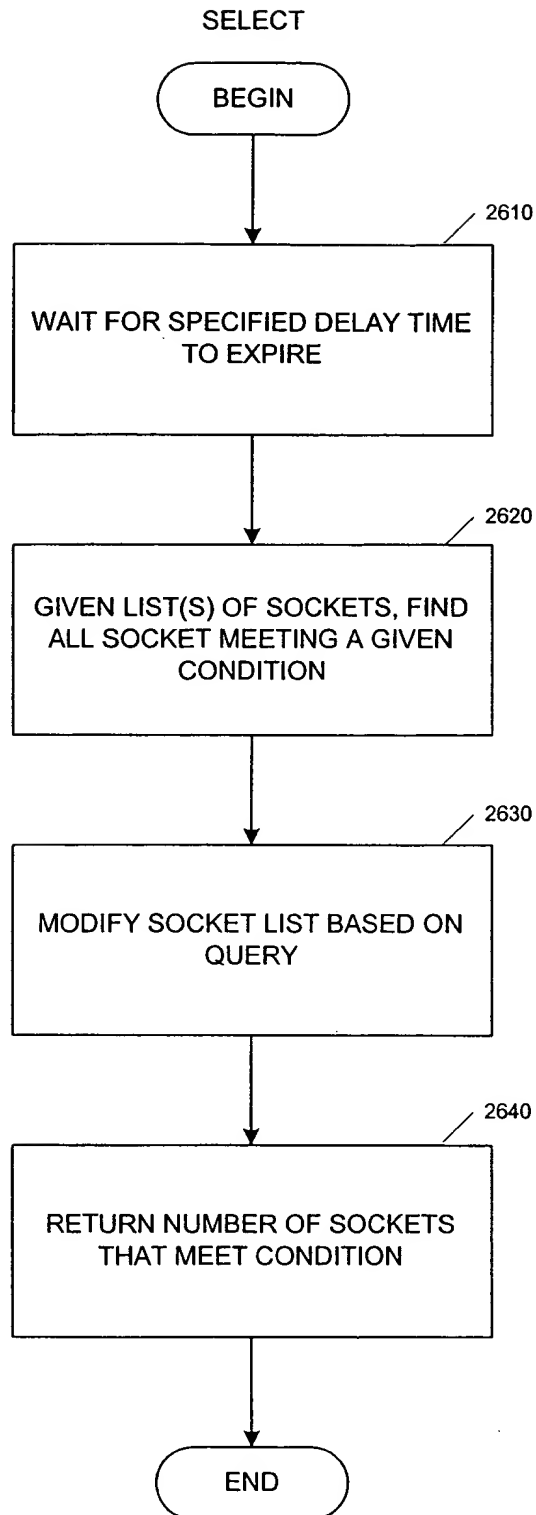
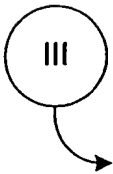


FIG. 26



1845

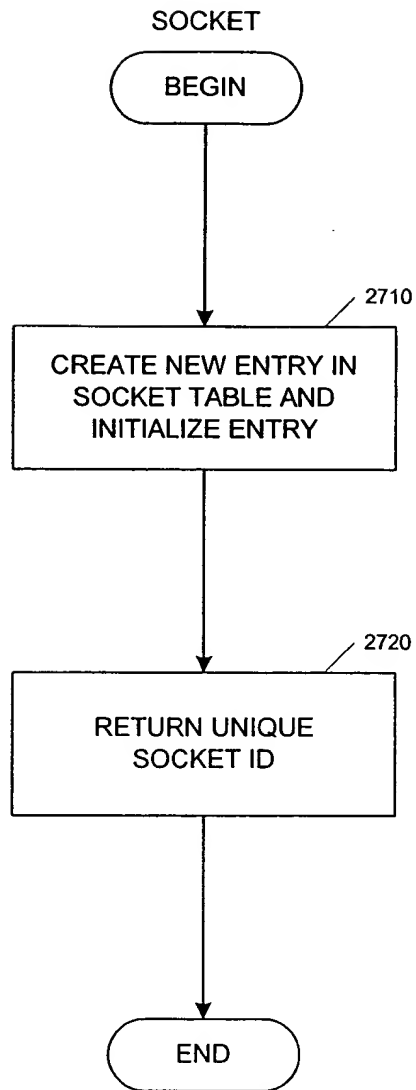


FIG. 27

JJJ

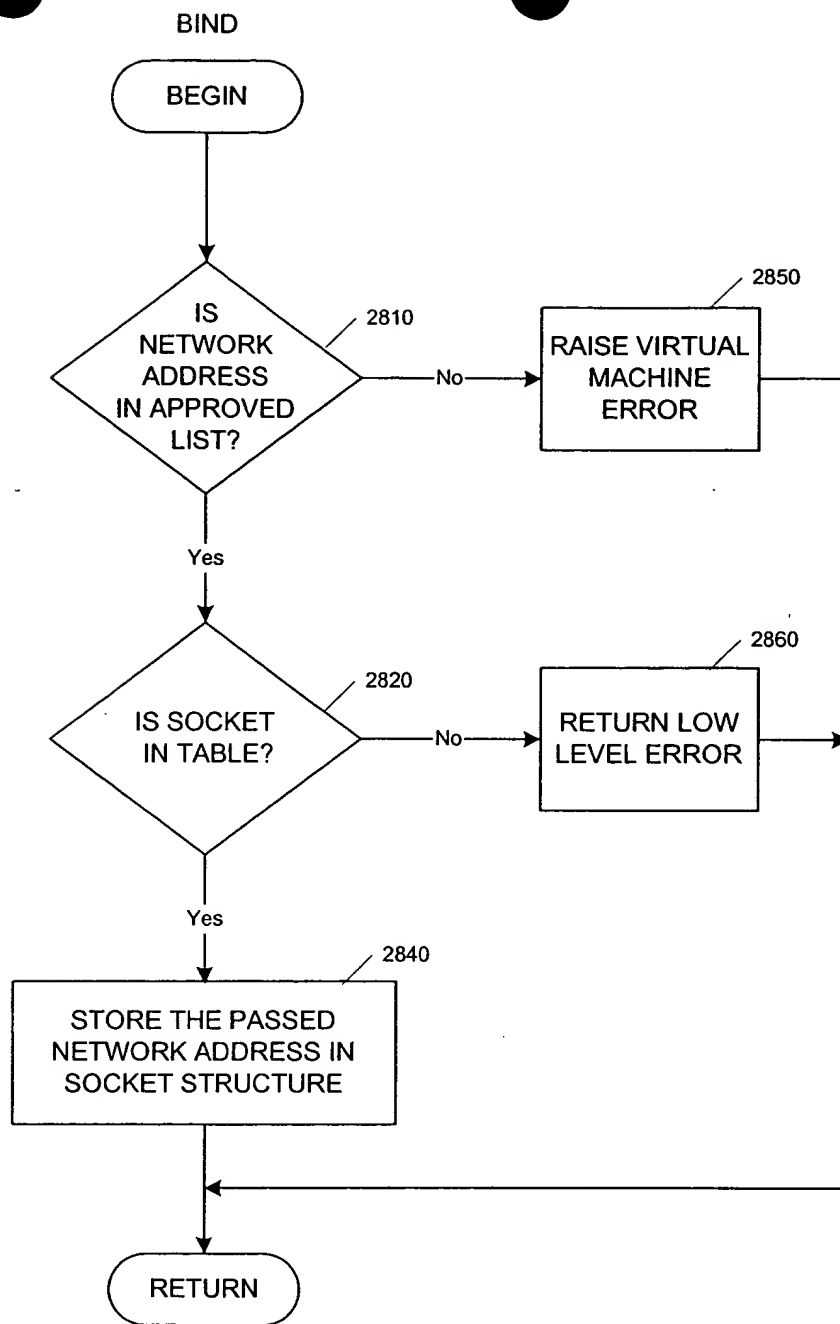


FIG. 28

KKK

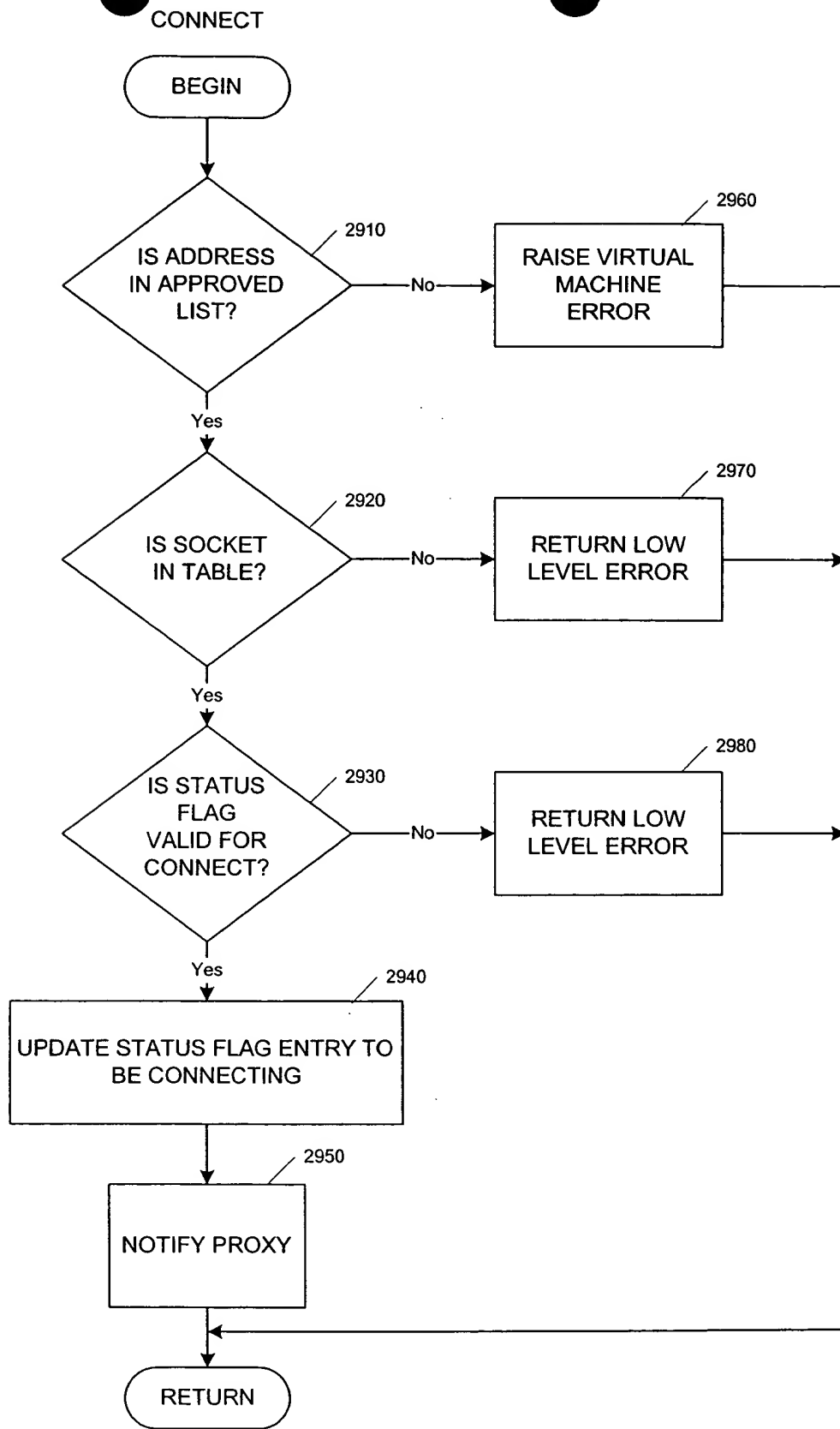


FIG. 29

LLL

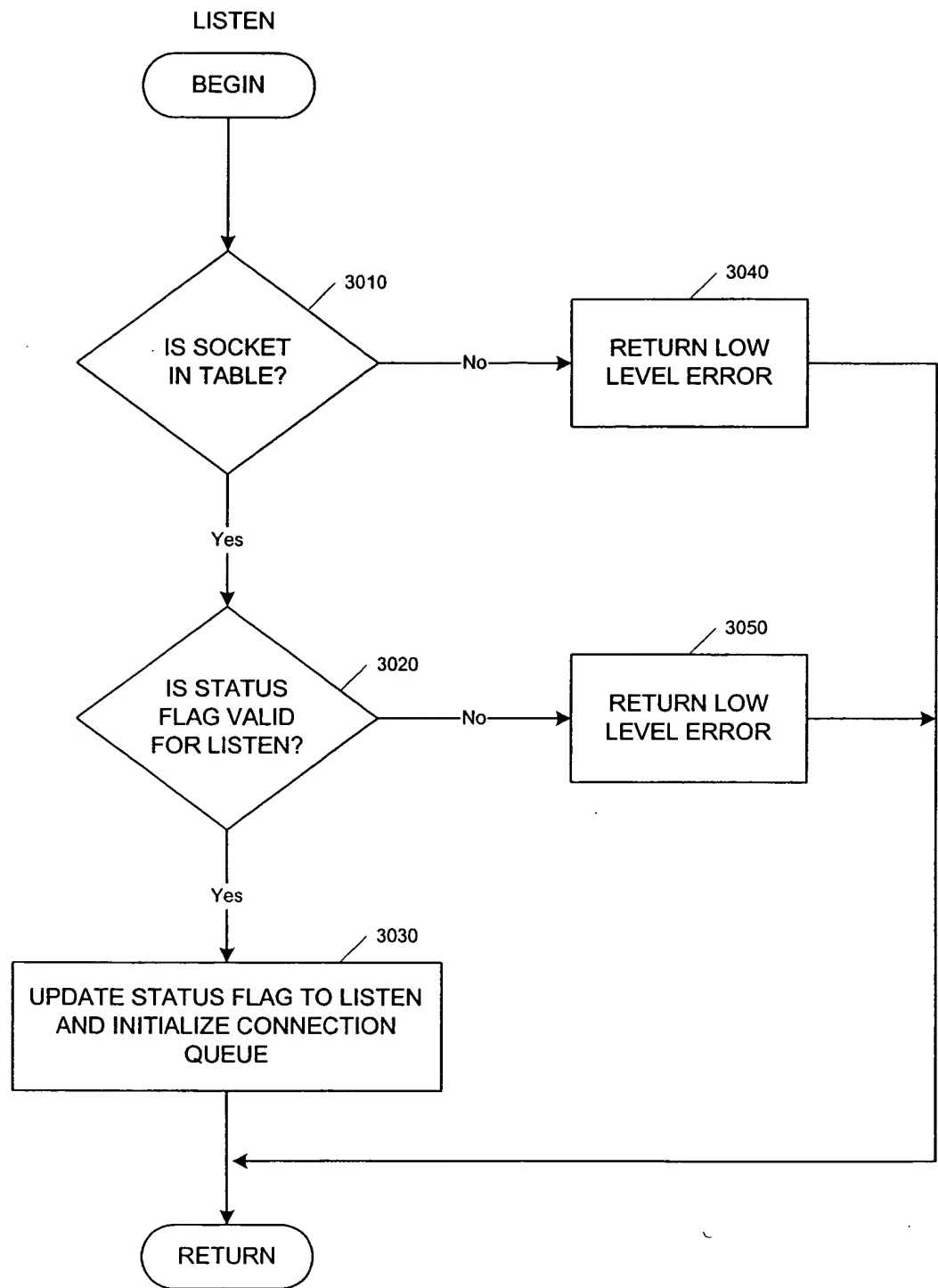


FIG. 30

MMM

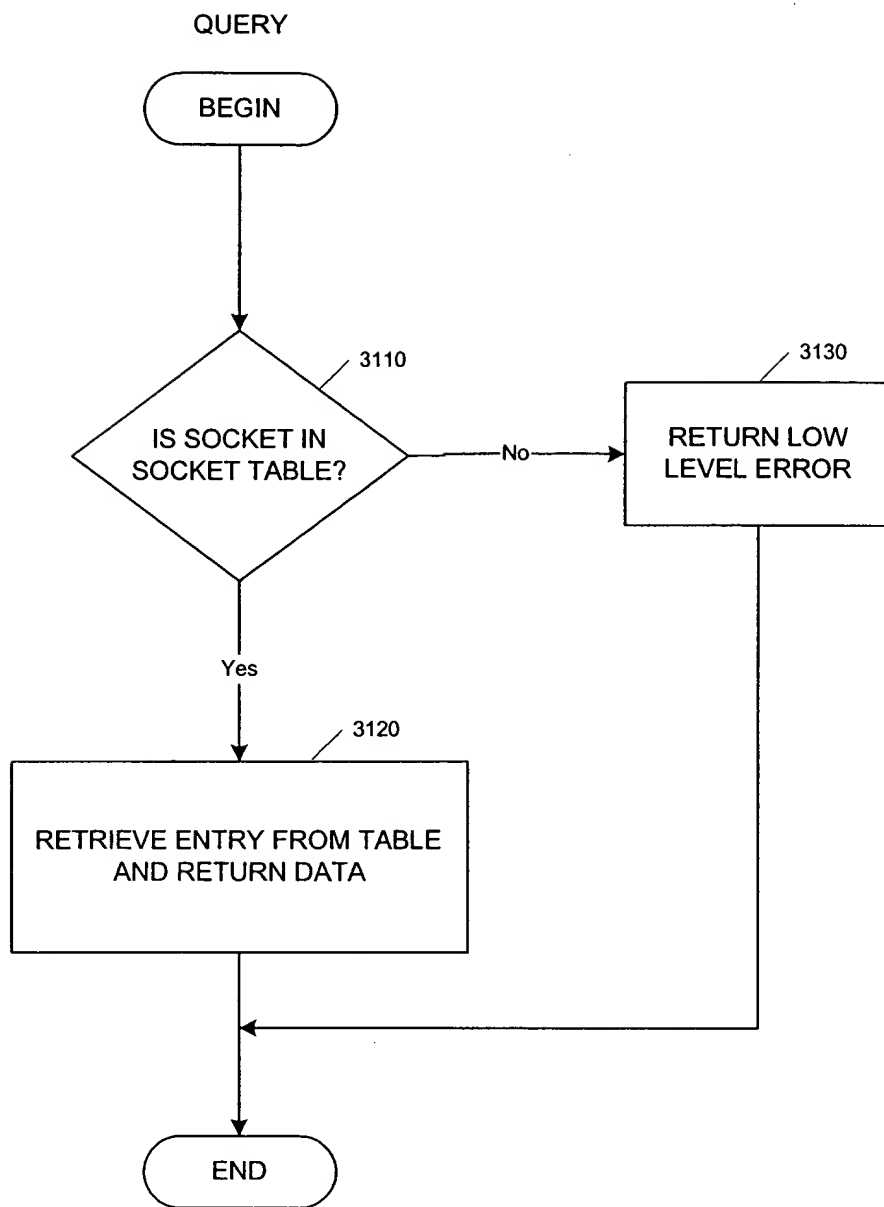


FIG. 31

UPDATE

BEGIN

IS SOCKET ID  
IN TABLE?

3210

No

RETURN LOW LEVEL  
ERROR

3230

Yes

UPDATE STATUS OF CONDITIONS  
OR FLAGS

3220

RETURN

FIG. 32



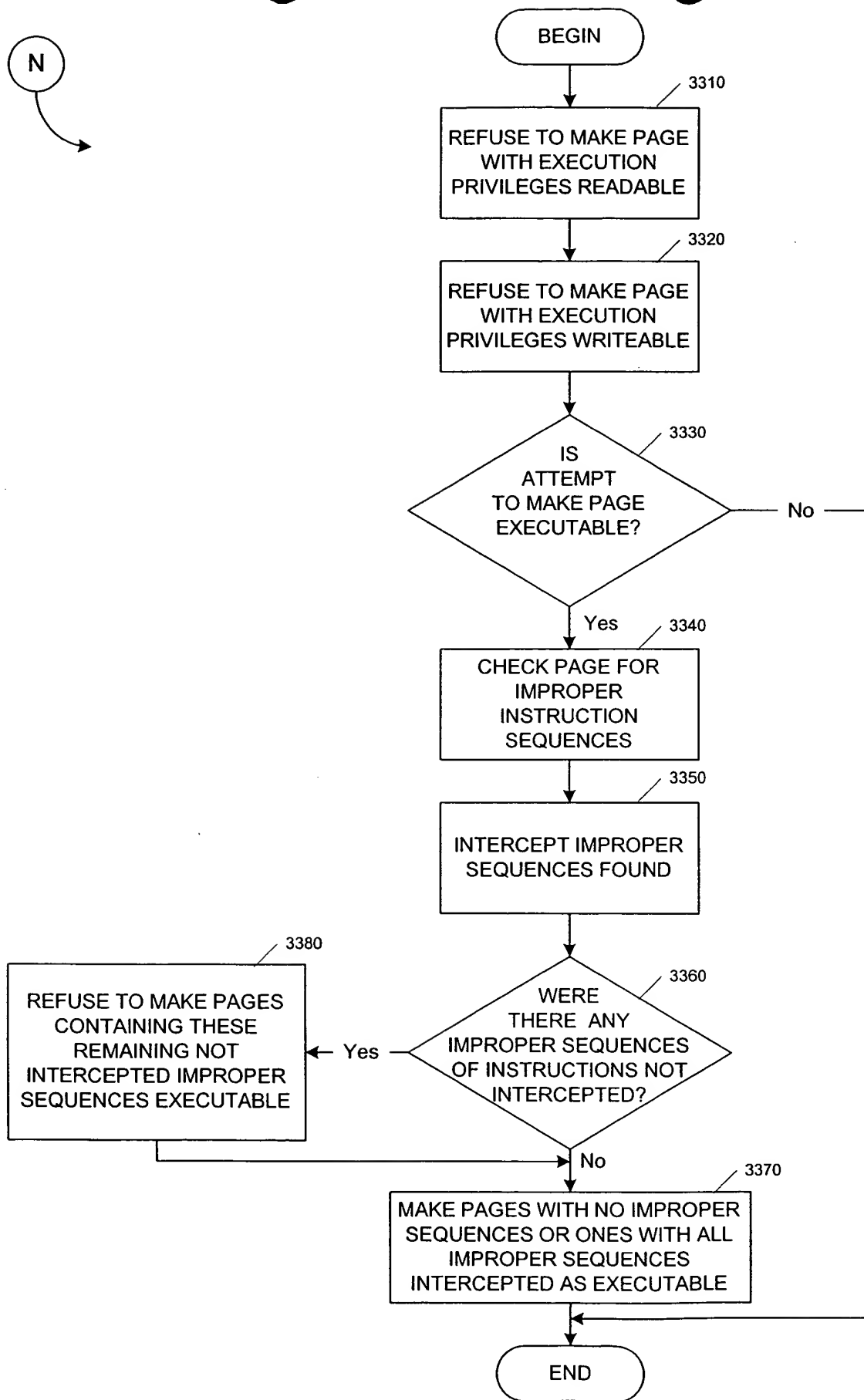


FIG. 33

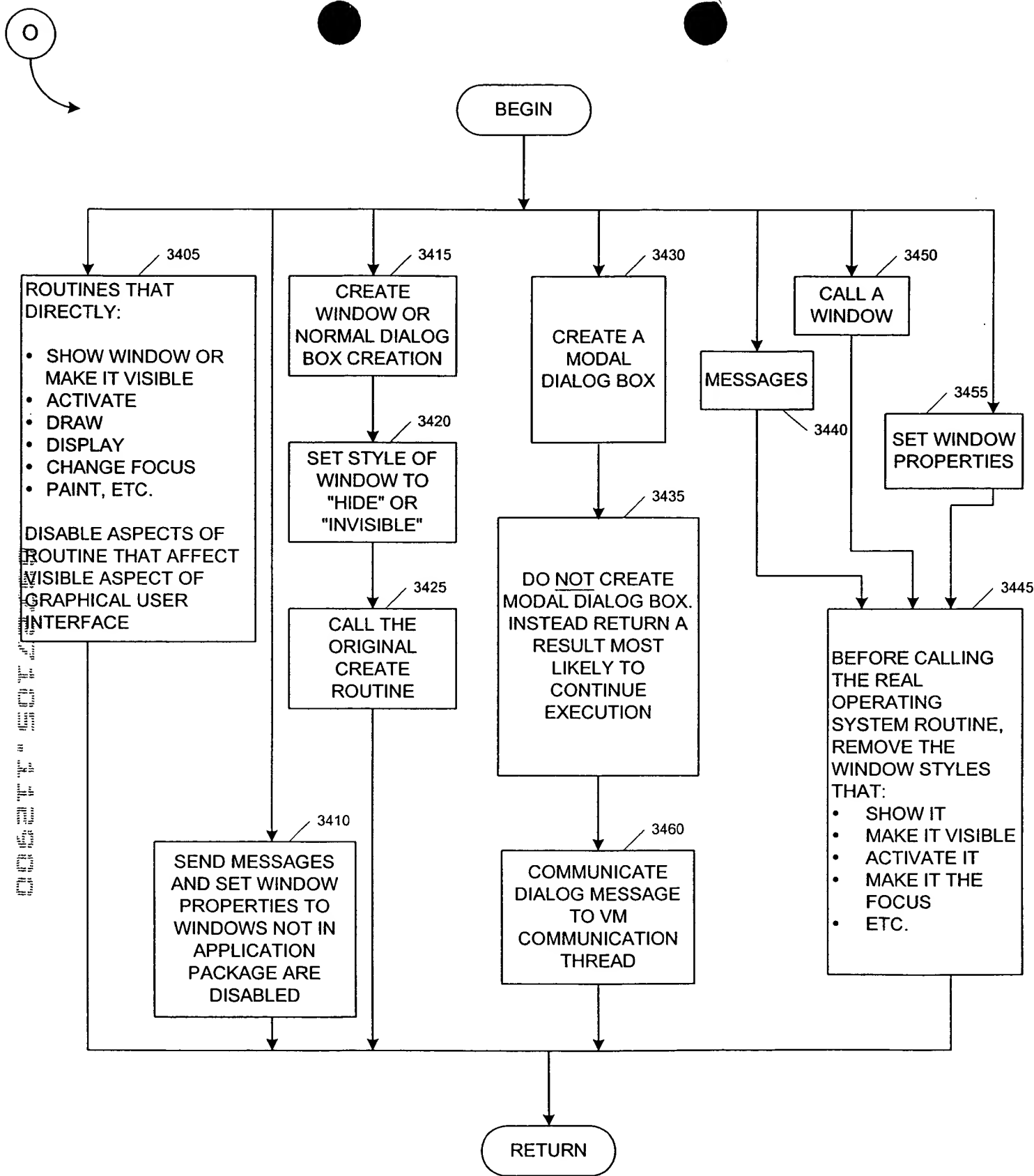


FIG. 34

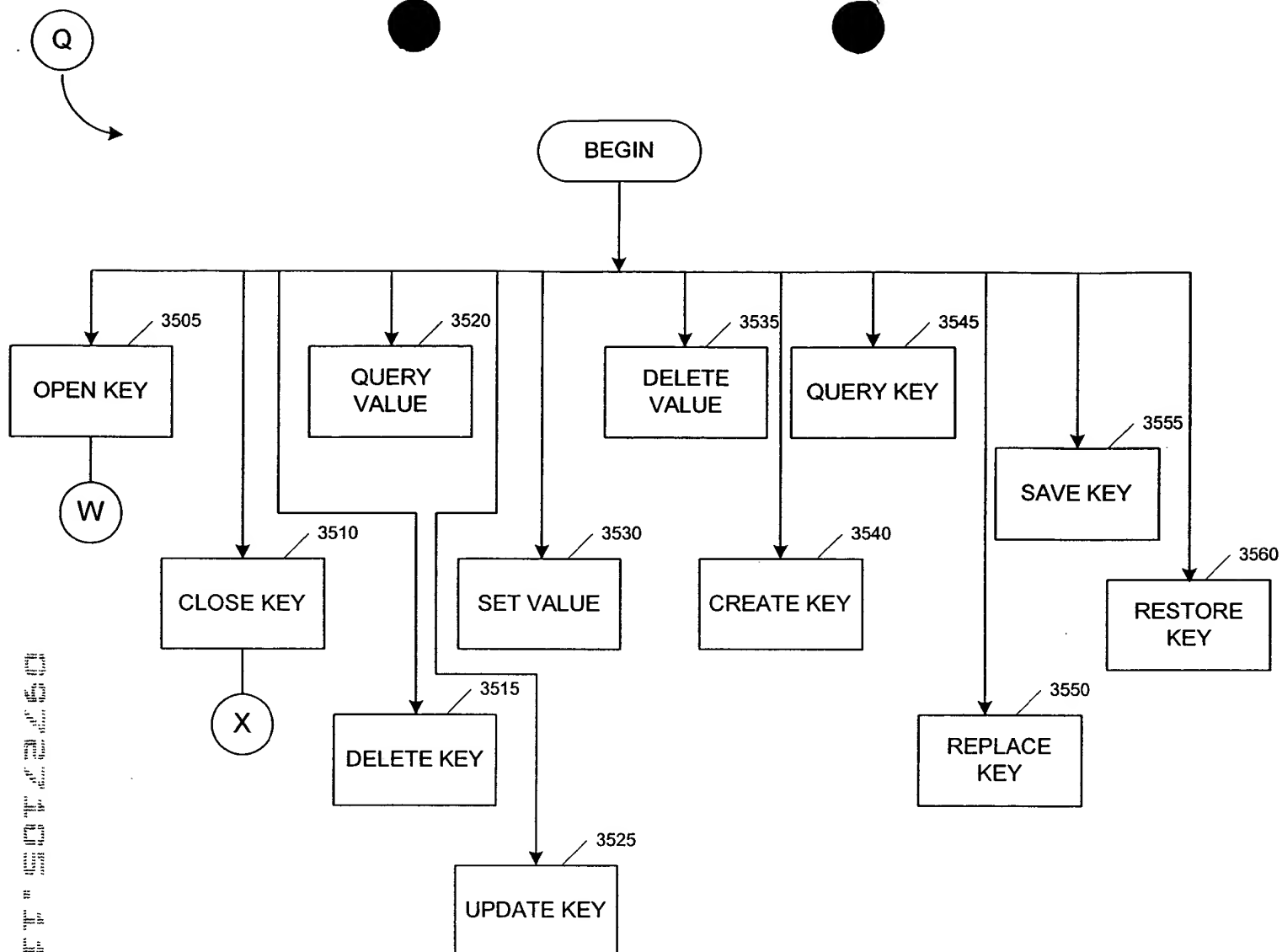


FIG. 35

W

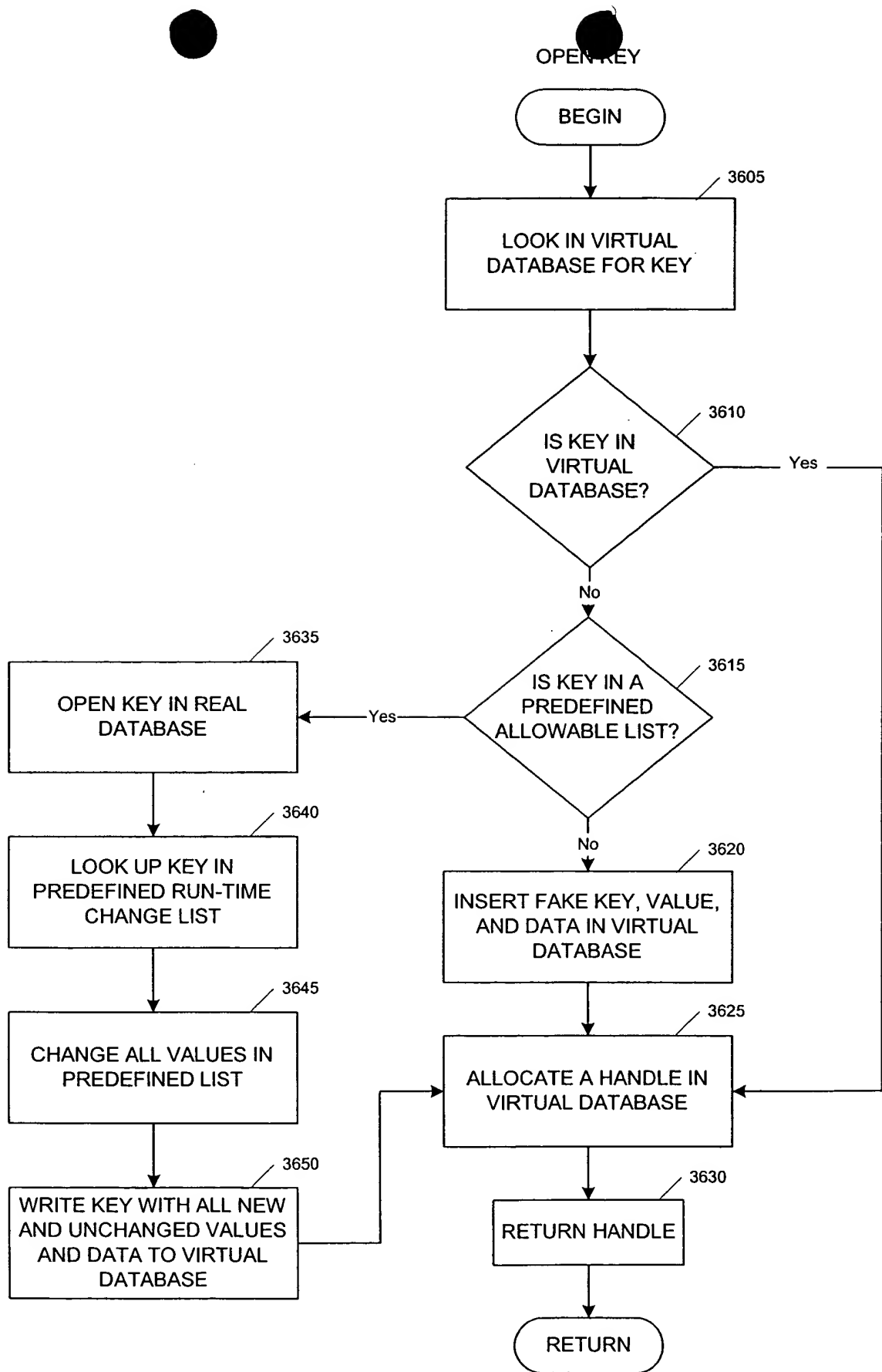


FIG. 36

X

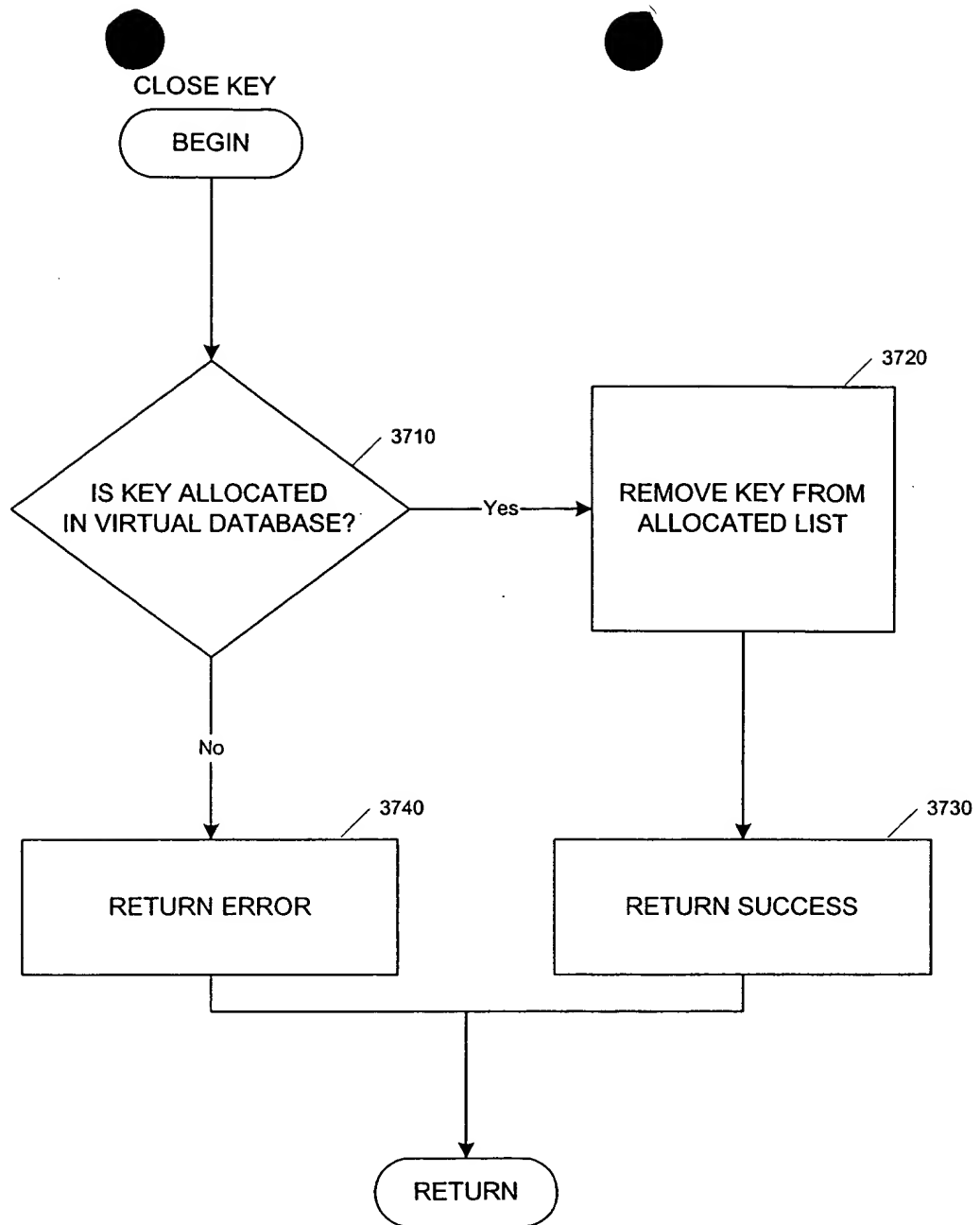


FIG. 37

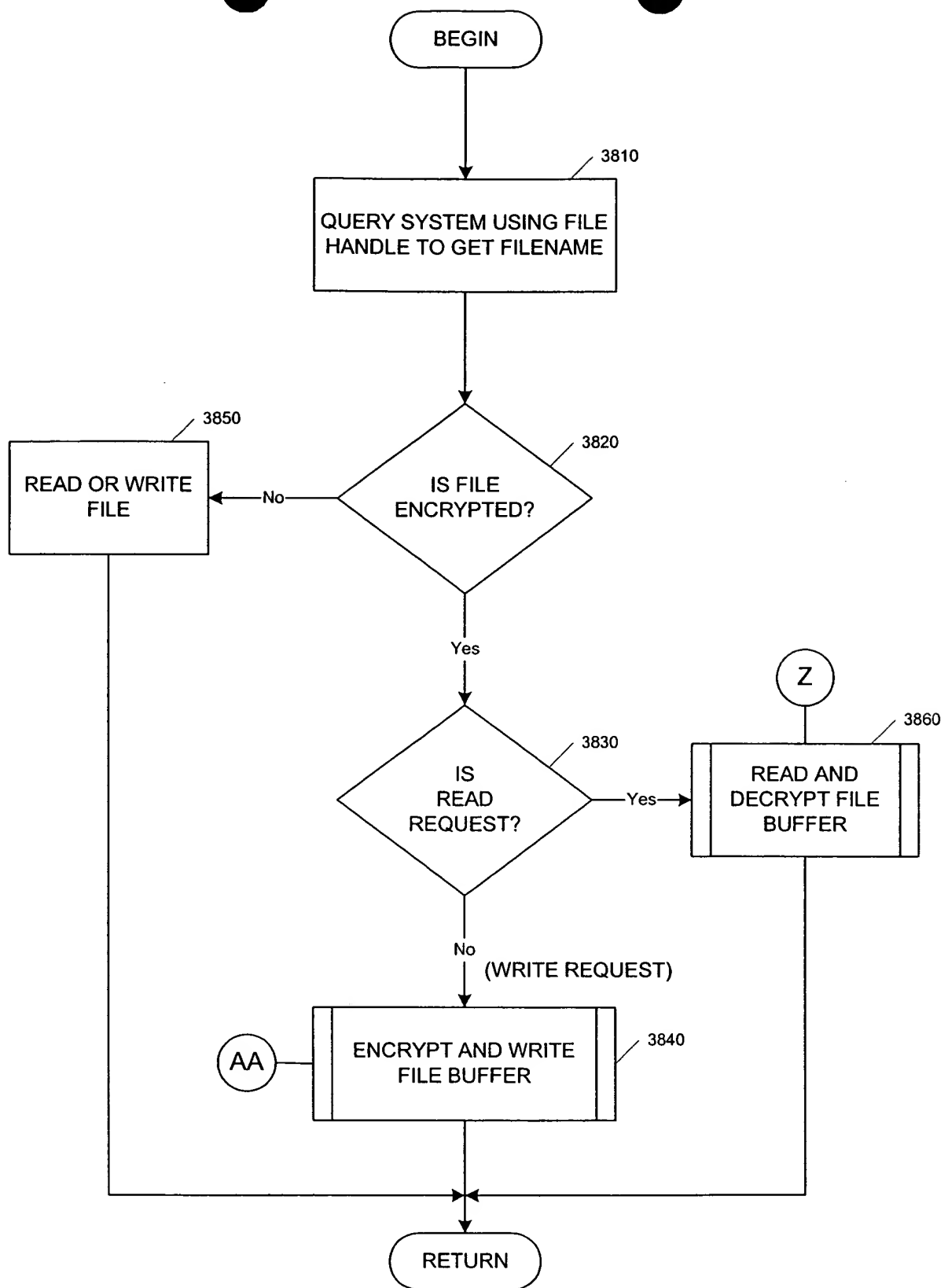


FIG. 38

Z

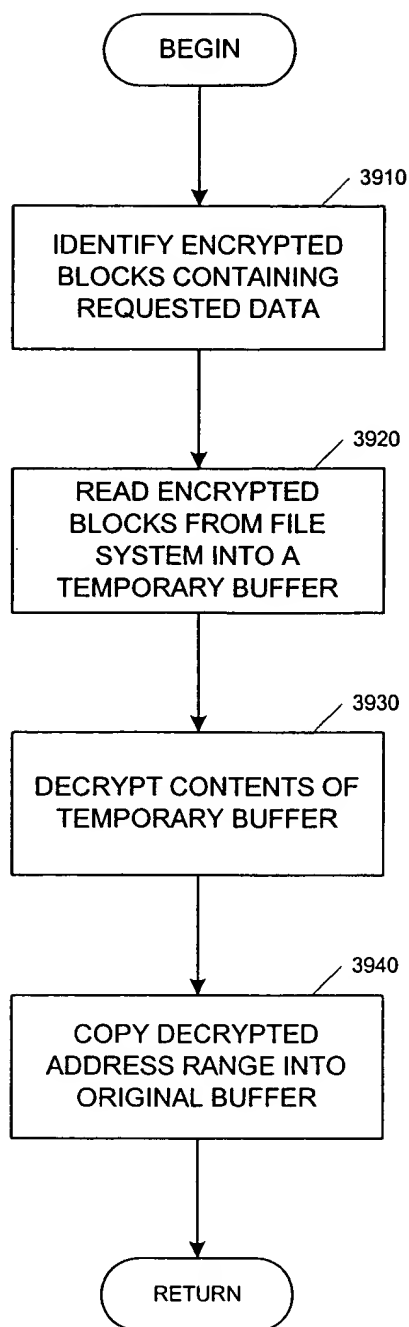


FIG. 39

AA

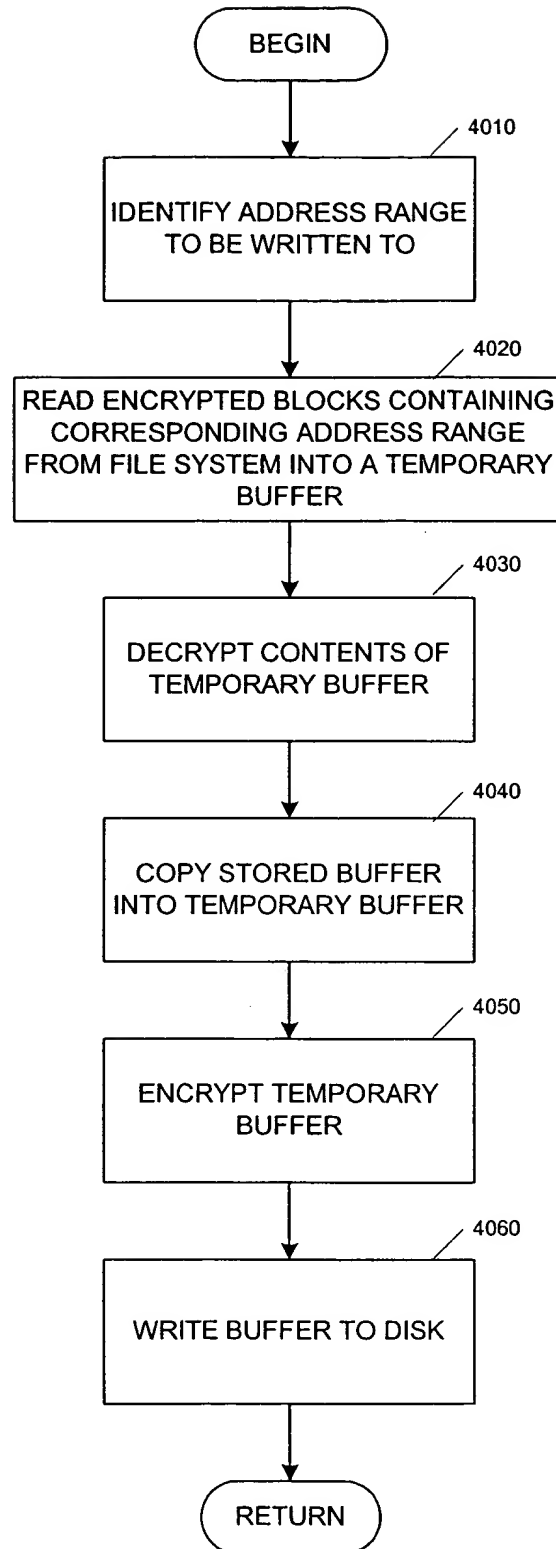


FIG. 40



S

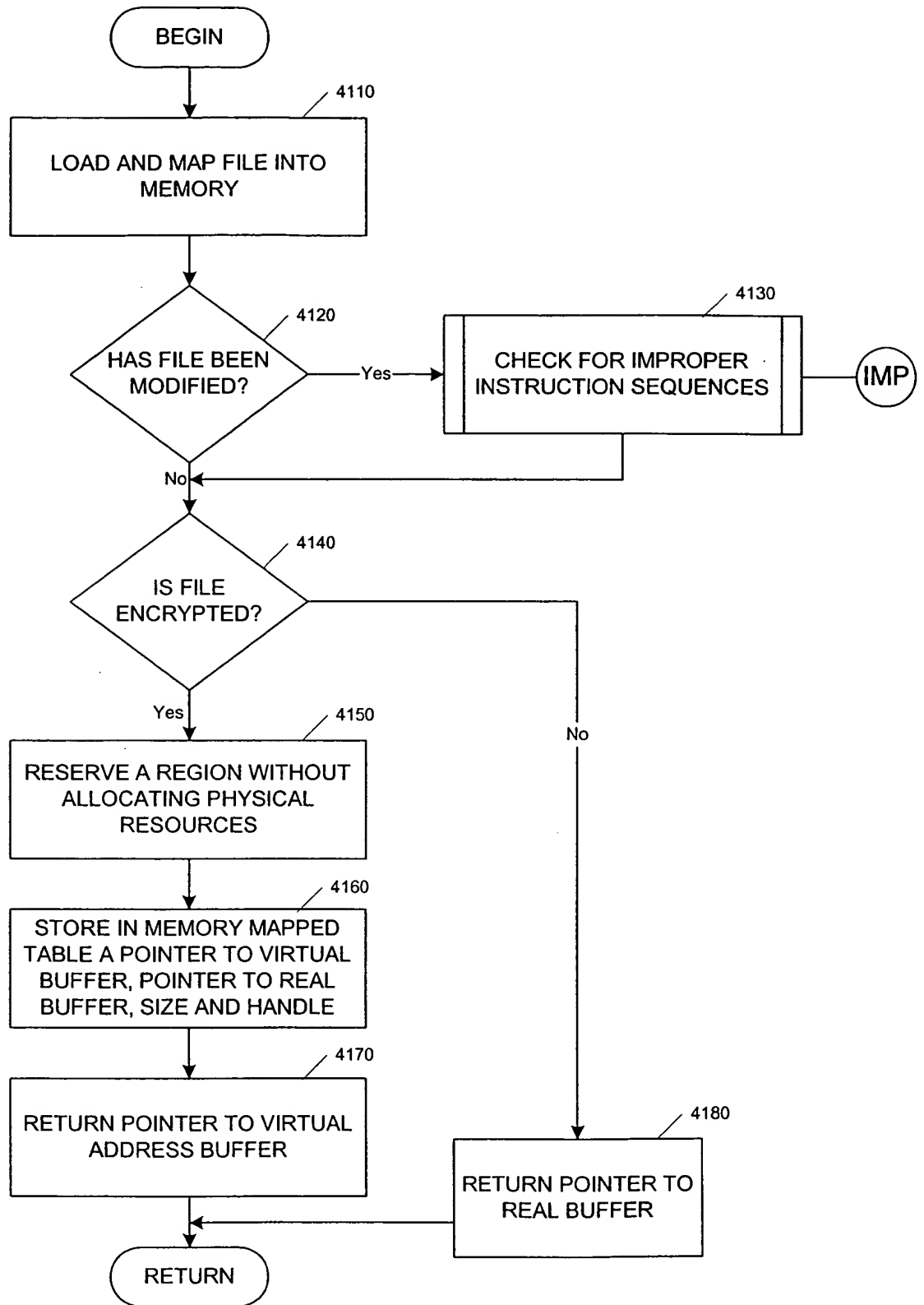


FIG. 41

S  
ALTERNATE TO FIG.41)

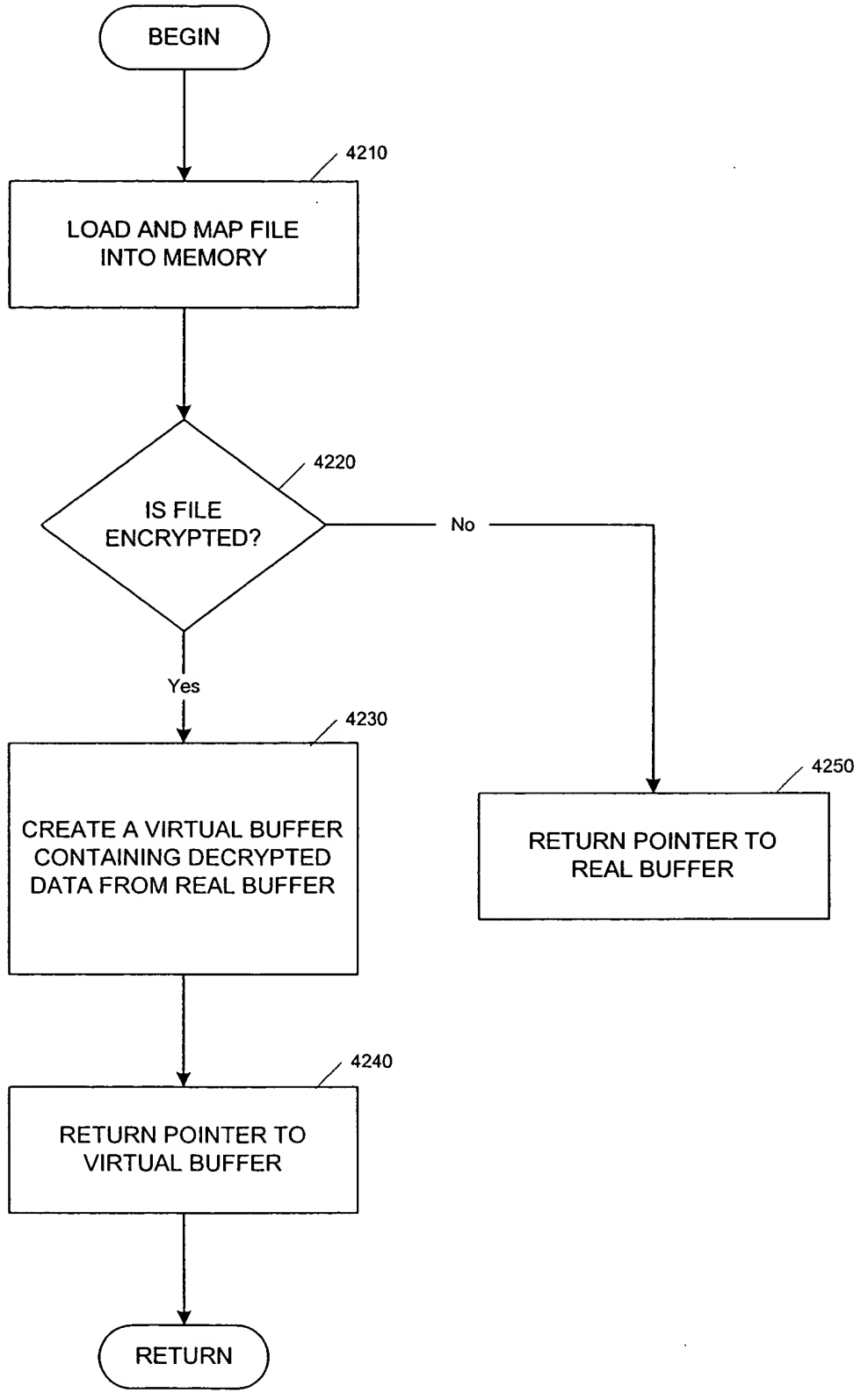


FIG. 42

T

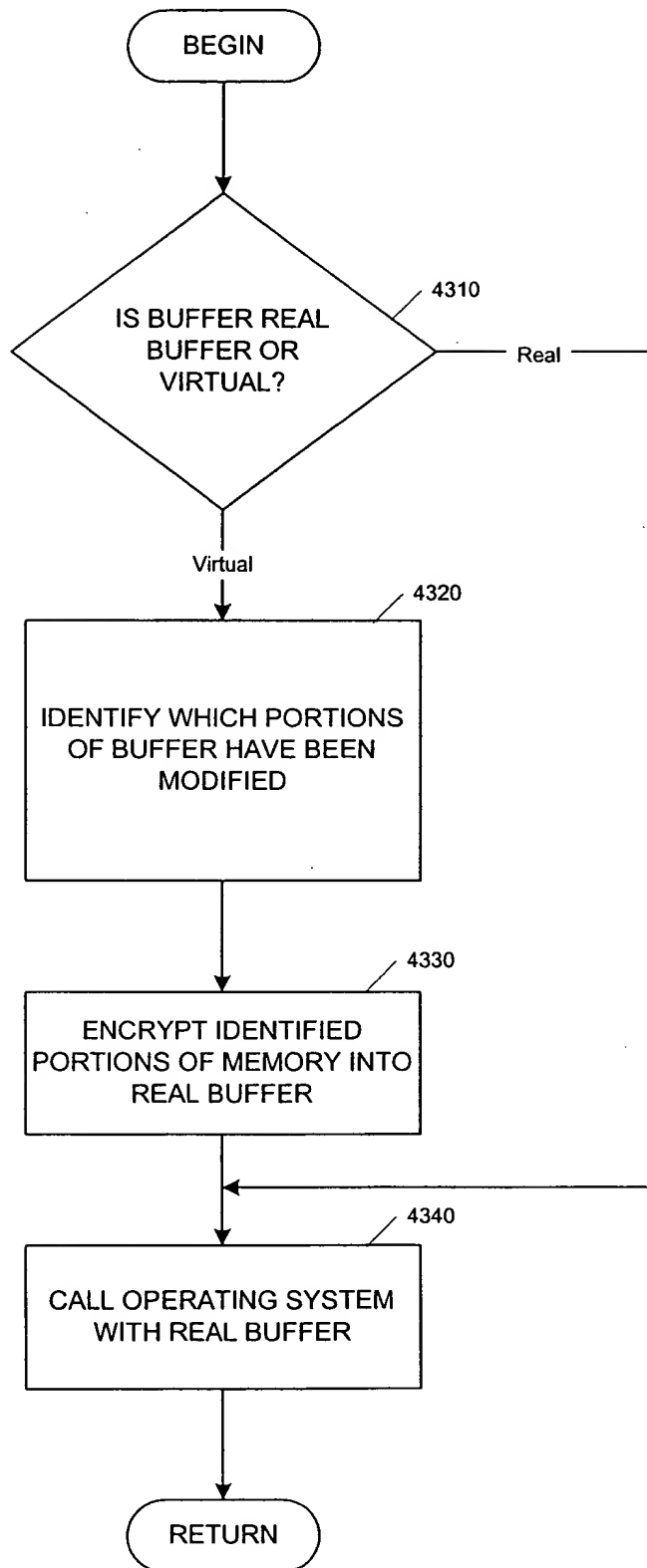
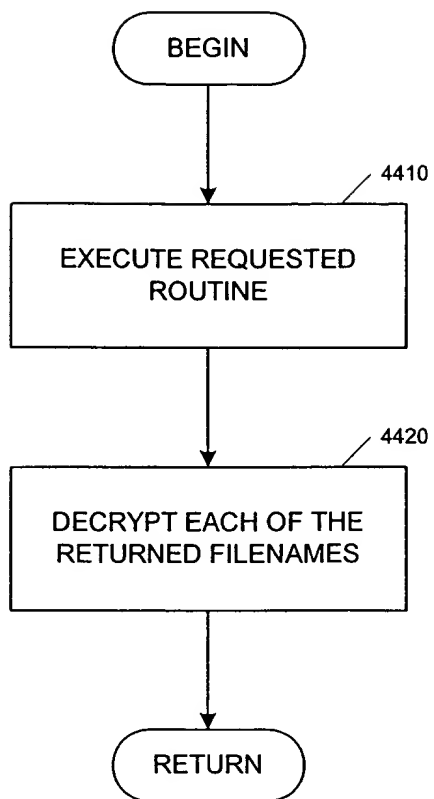
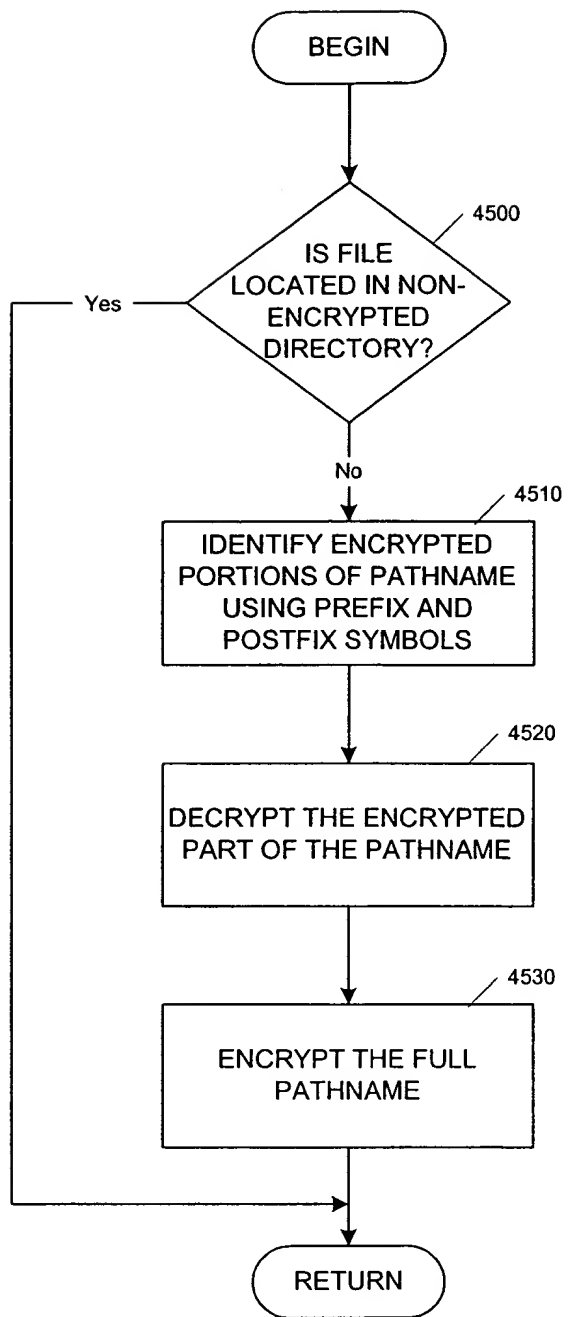


FIG. 43

[illegible]

V



4500 4510 4520 4530

FIG. 45

TRADITIONAL  
SYSTEM LAYOUT

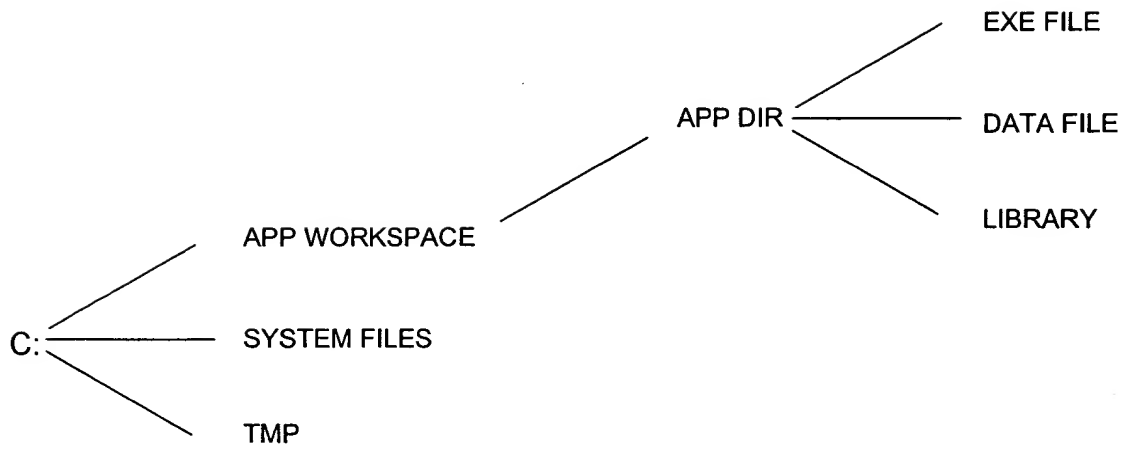


FIG. 46

VIRTUALIZED  
SYSTEM LAYOUT

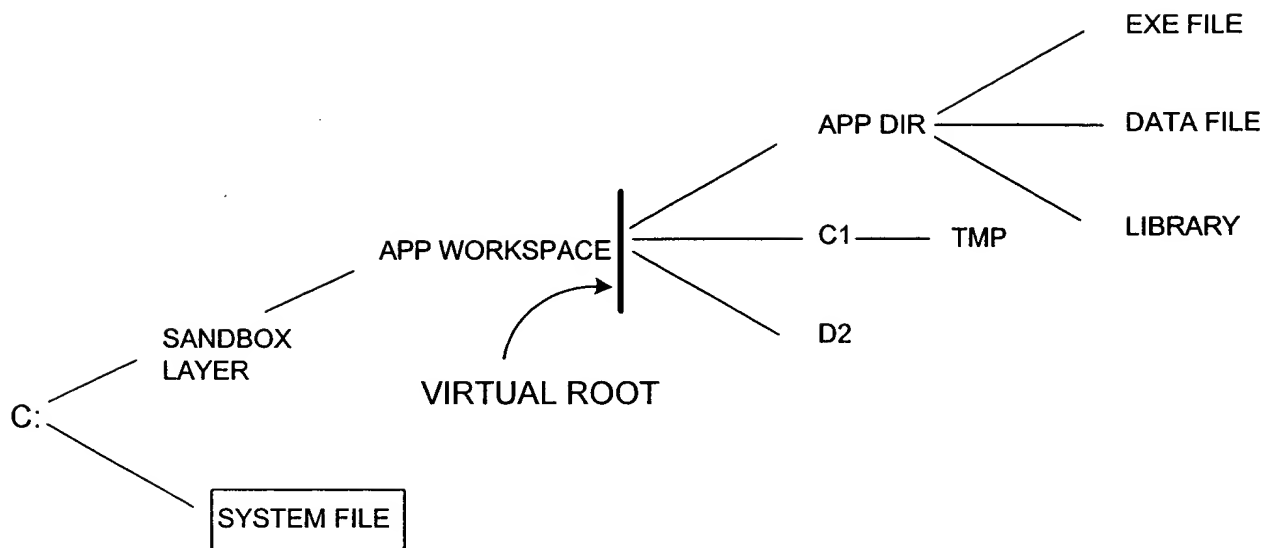


FIG. 47

## SOCKET TABLE

4804 "ENTRY" LOCAL SOCKET STRUCTURE	4812 REMOTE SOCKET STRUCTURE	4816 SOCKET STATUS	4820 SOCKET OPTIONS	4824 SEND QUEUE	4828 RECEIVE QUEUE	4832 CONNECTION QUEUE

4800

## SOCKET STRUCTURE

- UNIQUE SOCKET ID
- SOCKET TYPE
- PROTOCOLS
- OPTIONS
- NETWORK ADDRESSES
- EVENT
- FAMILY
- BLOCKING

## SOCKET STATUS

- UNCONNECTED
- RECEIVING
- SENDING
- LISTENING
- CONNECTED
- DISCONNECTED
- TERMINATED
- SHUTDOWN
- BOUND
- CONNECTING

FIG. 48



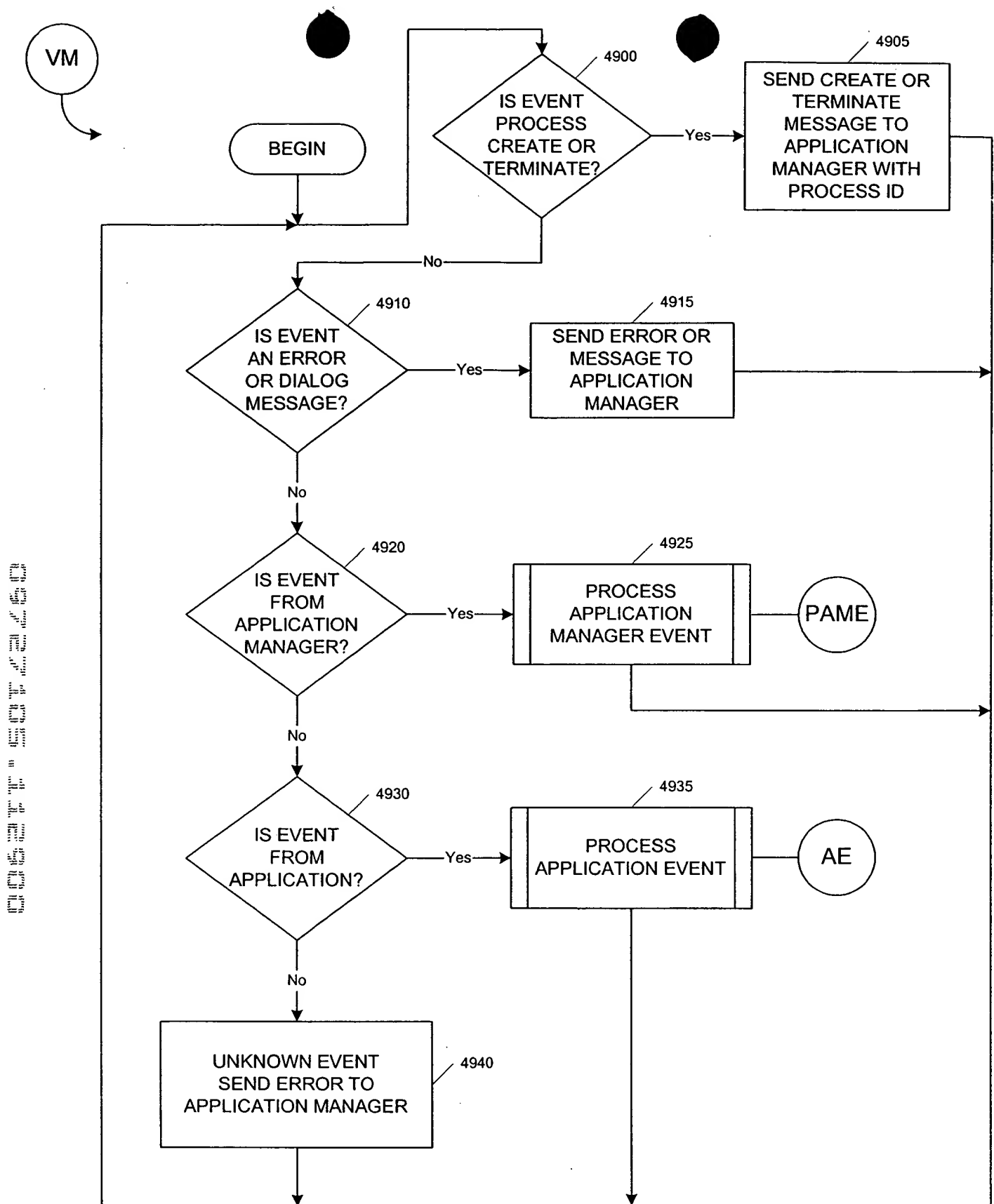


FIG. 49

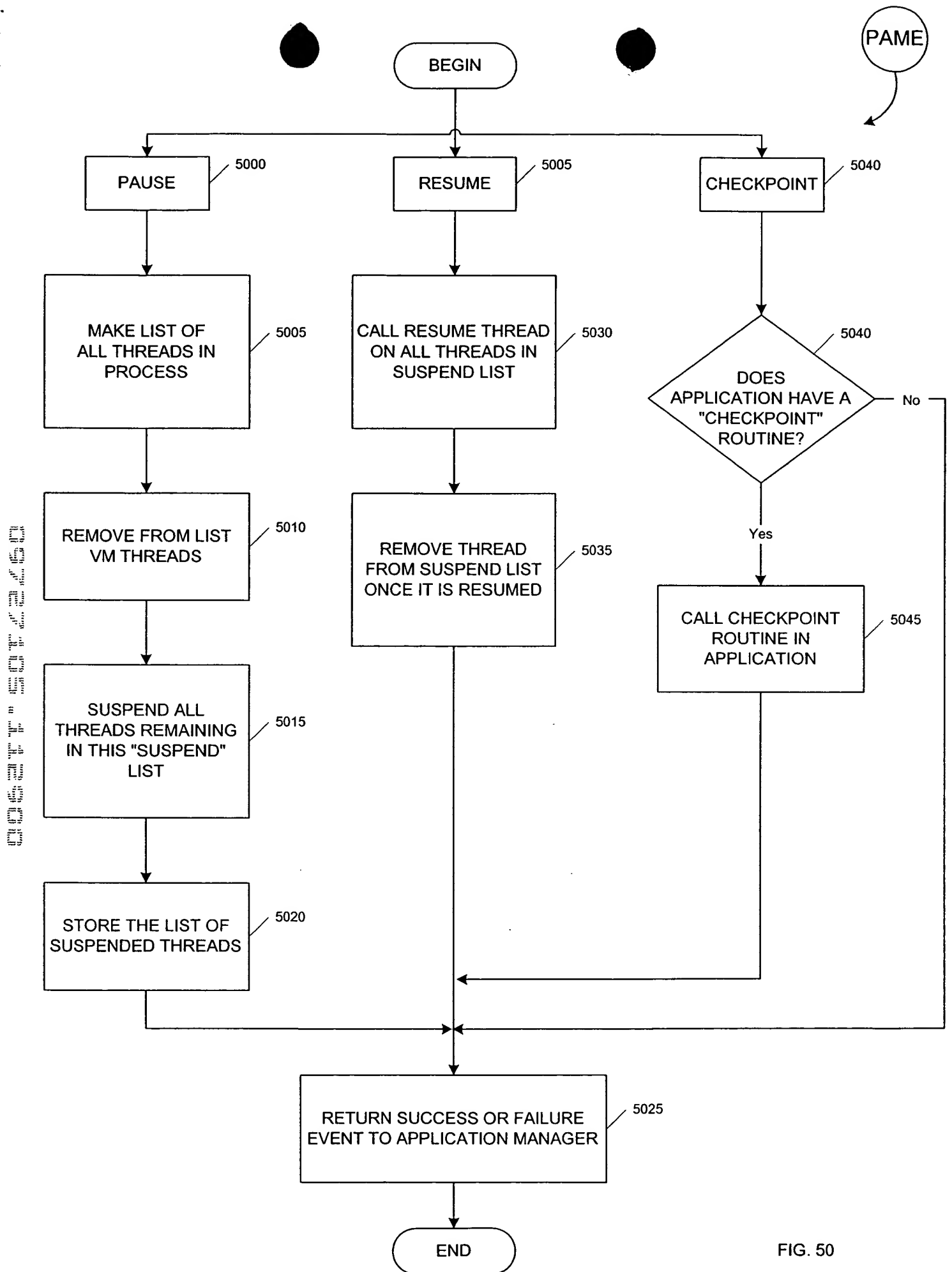


FIG. 50

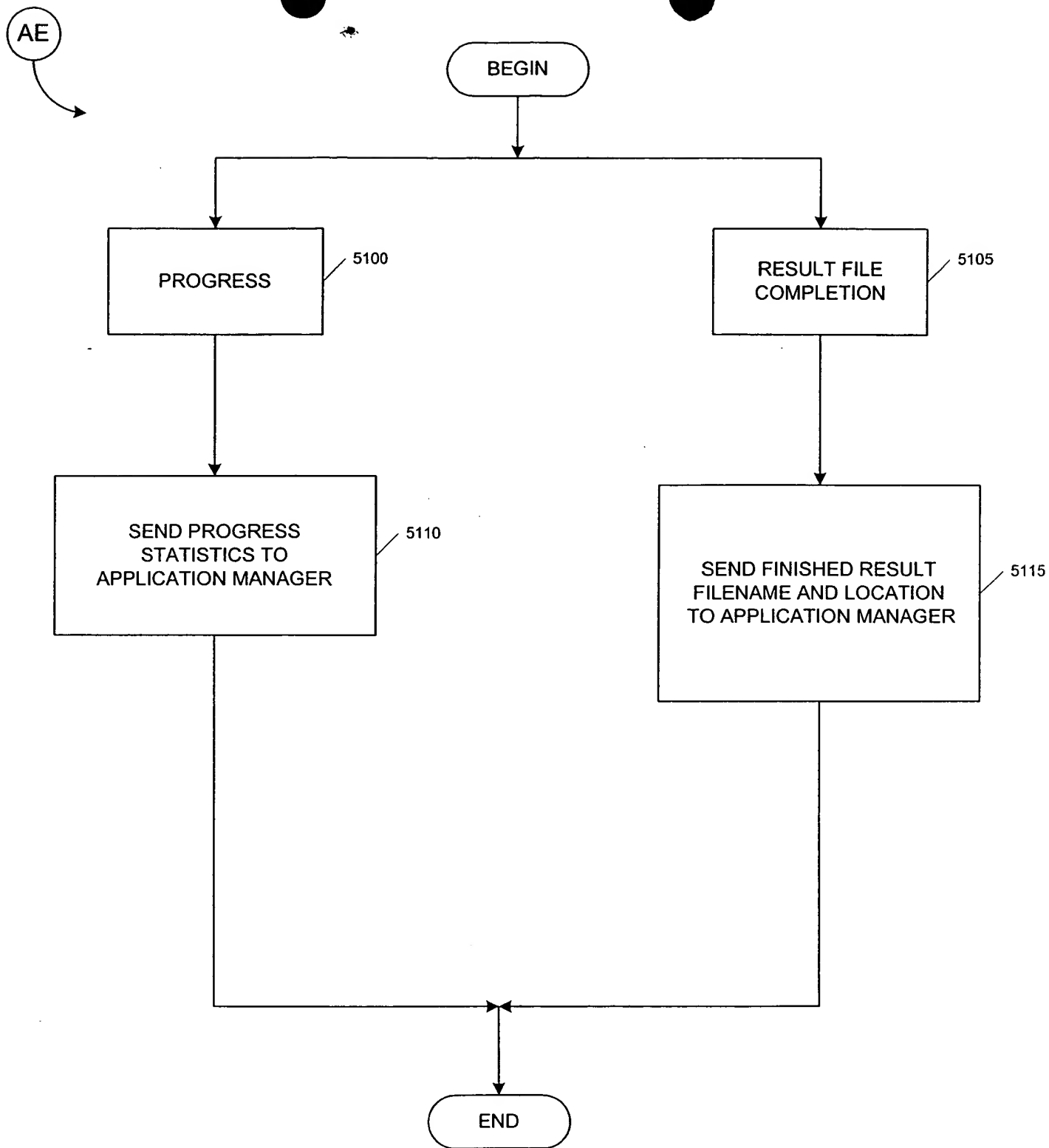


FIG. 51